



United States  
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# **Evaluation of Minimum Data Requirements for Acute Toxicity Value Extrapolation with Aquatic Organisms**

## **Final Report**

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## **Notice**

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## Abstract

Assessment of risk posed by an environmental contaminant to an aquatic community requires estimation of both its magnitude of occurrence (*exposure*) and its ability to cause harm (*effects*). Our ability to estimate effects is often hindered by limited toxicological information. As a result, resource managers and environmental regulators are often faced with the need to extrapolate across taxonomic groups in order to protect the more sensitive members of the aquatic community. The goals of this effort were to: 1) compile and organize an extensive body of acute toxicity data, 2) characterize the distribution of toxicant sensitivity across taxa and species, and 3) to establish appropriate toxicity extrapolation factors based upon toxicological relations among species and chemicals. The results of this effort allow for better use of available information for predicting the sensitivity of untested species to environmental contaminants.

Three extensive databases containing acute toxicity information were obtained. The first was the combined acute toxicity database of the U.S. Geological Survey's Columbia Environmental Research Center and the U.S. EPA's Gulf Ecology Division. A second database was obtained from the U.S. EPA's Office of Pesticide Programs. The third database (EVISTRA, a component of the AQUIRE/ECOTOX database) was obtained from U.S. EPA's Office of Research and Development. In order to develop the most useful database for the purpose of evaluating toxicological relations across chemicals and taxa, it was necessary to standardize the information to be incorporated and establish a core data set. This was accomplished in a series of iterative steps. In general terms, data that were derived from studies that approximated the acute toxicity test conditions outlined by the American Society for Testing and Materials (2002) and/or the Committee on Methods for Toxicity Tests with Aquatic Organisms (1975) were retained, while other data were eliminated. This paring of information greatly reduced the number of data points retained, but served to eliminate variability that would have hindered discernment of toxicological relations.

As a part of this project, a software program entitled "Ecological Risk Analysis" (ERA) was developed. The utility of this program is to assign sensitivity rankings (as percentile values) to species with known acute toxicity values for a given chemical and then predict an acute toxicity value for theoretical species with designated sensitivities. For this effort we chose to focus on estimating LC50 values for the theoretical 5<sup>th</sup> percentile most-sensitive species. The ERA program was used to establish initial estimates of 5<sup>th</sup> percentile values using the core data sets. Subsequently, various extrapolation and prediction methods were evaluated in terms of their ability to estimate comparable 5<sup>th</sup> percentile values for severely limited data sets.

While it is obviously desirable to have high quality acute toxicity values for as many species as possible for predicting toxicity values for sensitive members of the aquatic community, it is often necessary to make predictions for new or existing chemicals based upon limited data. The results indicate that the ERA program can be used with limited data sets to predict reasonable taxa-specific values for sensitive organisms. Further, if simple extrapolation from data on a single species must be used, the most satisfactory results were obtained with rainbow trout, bluegill, or scud.



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## Introduction

Assessment of risk posed by an environmental contaminant to an aquatic community requires estimation of both its magnitude of occurrence (*exposure*) and its ability to cause harm (*effects*). Our ability to estimate *exposure* is primarily limited by our analytical capability and our understanding of environmental compartmentalization and factors controlling bioavailability. Our ability to estimate *effects* is most often hindered by limited toxicological information. When toxicity information does exist, it is frequently available for only a limited number of aquatic species. Consequently, resource managers and environmental regulators are often faced with the need to extrapolate across taxonomic groups in order to protect the more sensitive members of the aquatic community.

The Environmental Fate and Effects Division (Office of Pesticide Programs, U.S Environmental Protection Agency) has undertaken approaches to implementing probabilistic risk assessments for aquatic ecosystems based, as a starting point, on the Ecological Committee on FIFRA Risk Assessment Methods (ECOFRAM) Aquatic Draft Report (1999). The proposed plan is to move the U.S. EPA towards an improved method for conducting pesticide risk assessments based upon considerations of magnitude and probability of effect. Many implicit assumptions exist involving the validity of extrapolations that are not explicitly addressed in current risk assessment methodology. It is important to note that current estimates of potential risk do not account for a number of factors that may profoundly affect the actual risk outcome. The present report addresses two of those factors: 1) intra-species sensitivity differences and 2) inter-species sensitivity differences for select aquatic species.

The goals of this effort were to: 1) compile and organize an extensive body of acute toxicity data, 2) characterize the distribution of toxicant sensitivity across taxa and species, and 3) to establish appropriate toxicity extrapolation factors based upon toxicological relations among species and chemicals. The results of this effort allow for better use of available information for predicting the sensitivity of untested species to environmental contaminants.

A fundamental assumption for this effort is that sensitivity to a given toxicant is distributed across all species in the broad aquatic community in the same manner that toxicant sensitivity is distributed across the individual members of a species within a population. In other words, a population is comprised of a few very sensitive individuals and a few very tolerant individuals, with the majority of individuals falling in the mid-range. The width of this normal distribution curve (distribution of sensitivity of individuals

within a species) determines the slope of the dose-response curve for a given species-chemical combination. If we assume that toxicant sensitivity across species is similarly distributed (with a few very sensitive species and a few very tolerant species, with the majority of species falling in the mid-range), we can use the sensitivity of tested species (existing toxicity data) to define the slope of the toxicity curve across all species within the broad aquatic community. Using the slope of the curve we can estimate acute toxicity values for species of varying sensitivity. For this effort, we chose to focus on estimating acute toxicity values for the theoretical 5<sup>th</sup> percentile most-sensitive species. Obviously, the procedure does not identify this theoretical species, but that is not necessary if the goal is to protect the aquatic community at-large based upon the distribution of sensitivity.

## Methods

### Database Development

Three extensive databases containing acute toxicity information were obtained. The first was the combined acute toxicity database of the U.S. Geological Survey's Columbia Environmental Research Center (CERC) and the U.S. EPA's Gulf Ecology Division (GED). The CERC-GED database is a compilation of acute toxicity information generated by the two laboratories over several decades. The database contains 4901 observations on 410 chemicals with 66 species of freshwater organisms (Mayer and Ellersieck 1986) and 1500 observations on 197 chemicals with 52 species of estuarine and marine organisms (Mayer 1987). A second database was obtained from the U.S. EPA's Office of Pesticide Programs (OPP). The OPP database is a compilation of acute toxicity information for a wide variety of aquatic and terrestrial organisms and birds that has been developed in support of the registration process for pesticides. The database contains 14,257 observations on 786 chemicals and 418 species. The third database (EVISTRA - Evaluation and Interpretation of Some Test Results in AQUIRE), which is a component of the U.S. EPA's AQUIRE/ECOTOX database, was obtained from the U.S. EPA's Office of Research and Development. The EVISTRA database was developed in support of the derivation of Ambient Water Quality Criteria. The entire AQUIRE/ECOTOX database contains 77,468 observations on 299 chemicals and 2522 species of fresh- and saltwater organisms; Table 1 (EVISTRA) data includes 3464 observations on 176 chemicals and 263 species.

In order to develop the most useful database for the purpose of evaluating toxicological relations across chemicals and taxa, it was important to standardize the information to

be incorporated. This was accomplished in a series of iterative steps. First, the databases were standardized in terms of nomenclature for chemicals and species and for the fields of data reported. After selecting common fields to be incorporated, data from the three databases were combined into a Microsoft® Excel spreadsheet. Chemical names and CAS numbers were compared and standardized across all three data sources. Subsequently, taxonomic and common names of species were standardized. This effort, along with comparison of original data source citations, made it possible to eliminate redundant reporting across and within each data source. The result of this effort was a single database containing acute toxicity information for a large number of chemical and species combinations, with no redundant reporting of values.

The next major step was to pare the data down to a core set that would be most useful for comparing values across species and chemicals. The goal was to retain as much information as possible, while eliminating data that would contribute more to variability than it would to revealing toxicological relations. For example, while a one-hour test of the toxicity of a chemical to a newly-hatched fathead minnow at 1° C might well produce useful information for a very specific purpose, its utility for producing data that would be useful to the development of extrapolation factors for use across taxa would be minimal. So, selection criteria were developed for a number of study design parameters that could be used to derive an optimal data set. In general terms, data that were derived from studies that approximated the acute toxicity test conditions outlined by the American Society for Testing and Materials (2002) and/or the Committee on Methods for Toxicity Tests with Aquatic Organisms (1975) were retained, while other data were eliminated. The selection criteria used were as follows:

1. Only data for aquatic organisms was retained.
2. Only 96-h LC50 data was retained for fish.
3. Only 48-h LC50 and EC50 data was retained for invertebrates, except for those invertebrate species that are most commonly tested for 96 h.
4. Only values obtained for fish  $\geq 0.2$  g and  $\leq 5.0$  g were retained.
5. Only values for fish  $\leq 3$  months old or  $\leq 50$  mm were retained.
6. Only values for chemicals identified as Technical Grade or better, or  $\geq 90\%$  Active Ingredient were retained.
7. Only values from studies conducted at a water hardness of 30-60 mg/L were retained.
8. Only values from studies conducted at a pH of 6.8-7.8 were retained.
9. Only values from studies conducted at temperatures "appropriate" for the species were retained.

10. Data for algae, plants, and diatoms were eliminated.
11. Data for fish and shrimp identified as "larval" were eliminated.
12. Data for mature blue crabs and adult oysters and shrimp were eliminated.

This paring of information greatly reduced the number of data points retained, but served to eliminate variability that would have hindered, rather than enhanced, discernment of toxicological relations. After paring, the database contains 3734 tests on 654 chemicals and 136 species of aquatic organisms (Appendix 1). A final step before analysis was to calculate geometric means of multiple values for single chemical-species combinations. For example, if three LC50 values were reported for rainbow trout exposed to copper sulfate, the geometric mean of those values was calculated and used as the single database entry for that chemical-species combination. The final database represents a major distillation of a very large body of acute toxicity values, but provides the necessary comparability for analyses of chemical and species correlations.

## Analyses

As a part of this project, statisticians from the Agricultural Experiment Station, College of Agriculture, Food and Natural Resources, University of Missouri-Columbia developed a software program entitled "Ecological Risk Analysis" (ERA). The utility of this program is its ability to assign sensitivity rankings (as percentile values) to species with known acute toxicity values for a given chemical, and its ability to then predict an acute toxicity value for theoretical species with designated sensitivities (e.g. 5<sup>th</sup> percentile). As previously mentioned, for this effort we chose to focus on estimating LC50 values for the theoretical 5<sup>th</sup> percentile most-sensitive species. A brief description of the functioning of the ERA Program follows:

1. Using the database described above, each species with a known acute toxicity value for a given chemical is assigned a percentile sensitivity ranking using the formula:  $Percent = (100 \cdot n / (N+1))$ , where  $n$  = the rank number of the species in terms of sensitivity to the chemical, and  $N$  = the total number of species with values for that chemical.
2. For a given chemical, a simple linear regression is then performed with  $\log_{10}$  LC50 values on the X-axis and species percentile values on the Y-axis.
3. The LC50 value corresponding to any percentile value of interest can then be estimated from the line. In this effort, we focused on the 5<sup>th</sup> percentile sensitivity value.

4. Confidence intervals, at selected levels of significance, can be calculated for all point estimates.
5. Values for either the X- or Y-axis can be predicted from values from the opposite axis (i.e. percentile sensitivity values corresponding to LC50s, or LC50s corresponding to percentile sensitivity values).

The theoretical basis for this log-normal distribution method is described by Solomon, et al. (1996), and an approach to the use of species distributions of toxicity values in probabilistic risk assessment is discussed by Solomon et al. (2000). Other models have been suggested (log-logistic, log-triangular, and bootstrap techniques), as well as using censored data sets, for estimating the 5<sup>th</sup> percentile, but a consensus does not seem to exist (Posthuma et al. 2002). Thus, for this initial assessment of extrapolation factors, we used the log-normal distribution model (Solomon et al. 1996).

The ERA program was used to evaluate toxicant sensitivity relations for all chemicals in the database for which ten or more species were represented (Table 1). There were 53 such chemicals. Evaluations of toxicant sensitivity relationships with these chemicals formed the foundation for all subsequent analyses – our presumption being that this was our “best” data for evaluation of sensitivity relationships across species. The first step was to use the ERA program to estimate a 5<sup>th</sup> percentile LC50 value for each chemical. This value represents our best estimate of the LC50 for the theoretical 5<sup>th</sup> percentile most-sensitive species. Subsequently, four methods were evaluated in terms of their ability to predict 5<sup>th</sup> percentile LC50 values from severely limited data sets. The four methods included: 1) development of simple extrapolation factors for use with commonly tested species using raw LC50 data to predict 5<sup>th</sup> percentile LC50 values, 2) development of simple extrapolation factors using log10 transformed data to predict 5<sup>th</sup> percentile LC50 values, 3) prediction of 5<sup>th</sup> percentile LC50 values based upon regression analysis with values for commonly tested species, and 4) use of the ERA program with limited data sets to predict 5<sup>th</sup> percentile LC50 values. Each of these methods is described in more detail below:

**Method 1: Simple extrapolation factors** – Simple extrapolation factors were calculated for each of the 10 most commonly tested species in the database (Table 2) for each of the 53 chemicals. This was accomplished by dividing the original ERA estimate of the 5<sup>th</sup> percentile LC50 value by the species’ LC50 value (expressed in ( $\mu\text{g/L}$ ). Median extrapolation factors for each of the 10 species were then calculated across all 53 chemicals. Finally, the LC50 for a species-chemical combination was multiplied by the spe-

cies’ median extrapolation factor to yield a “new” estimate of the 5<sup>th</sup> percentile LC50.

**Method 2: Simple extrapolation factors using log-transformed data** – A process identical to that described above was applied, using log10 transformed LC50 values to moderate variability.

**Method 3: Regression analysis of log-transformed values** – A third method used regression analysis to derive equations from which 5<sup>th</sup> percentile LC50 values could be calculated from acute toxicity values for commonly tested species. For each of the ten commonly tested species, a simple linear regression was performed. Data for the log10 5<sup>th</sup> percentile LC50 values derived from the ERA program for each of the 53 chemicals in the core data set comprised the Y-axis and log10 acute toxicity values for the individual tested species comprised the X-axis. New estimates of the 5<sup>th</sup> percentile LC50 for each chemical were then made using the species-specific equations and the original acute toxicity values.

**Method 4: ERA with limited data sets** – Finally, the ERA program was used with intentionally limited minimal data sets comprised of various combinations of the most commonly tested species. Six combinations of species were used (Table 3).

**Analysis by chemical class** – Each of the previously described methods draws upon data derived from a relatively wide array of chemical classes, representing a variety of biochemical modes of action. Theoretically, less variable results should be obtained by limiting the analysis to chemicals representing a single mode of toxic action. Within the core data set of 53 chemicals, inhibitors of acetylcholinesterase (organophosphates and carbamates) comprised the most highly represented class. Each of the four evaluation methods was applied to a more limited data set comprised only of cholinesterase inhibitors.

**Calculation of error values** – The results obtained with each of the methods were evaluated for their ability to predict 5<sup>th</sup> percentile LC50 values. Estimates of “error” associated with each method were calculated as follows: First, we assumed that the ERA estimates of the 5<sup>th</sup> percentile LC50 values for chemicals derived from core data sets are the “true” values for these chemicals. Dividing the new estimate of the 5<sup>th</sup> percentile LC50 value for a chemical (derived by one of the four alternative approaches) by the original ERA estimate yields a proportion that can be used as an “error value.” Mean and median error values were calculated for each species (or species combination) across all chemicals to compare the utility of the alternative approaches.

## **Analysis Using Taxa-Specific Core Data Sets**

An attempt was made to improve the analysis by segregating freshwater organisms from saltwater organisms, and fish from invertebrates. It was assumed that analysis within groups of more closely related taxa would yield less variable results. Whereas the previous analysis predicted a 5<sup>th</sup> percentile LC50 value for an unclassified theoretical species, this subsequent analysis would predict 5<sup>th</sup> percentile LC50 values for a theoretical species of freshwater fish, a freshwater invertebrate, etc. Such an analysis is more compatible with the current methodology of the Office of Pesticide Programs, which predicts separate fish-specific and invertebrate-specific values.

After segregation of the database, the components (freshwater fishes, freshwater invertebrates, saltwater fishes, saltwater invertebrates, and "amphibia and others") were evaluated in terms of the number of species represented per chemical (Appendix 2) in order to establish new "core" data sets. In the previous analysis, only those chemicals for which ten or more species were represented were used to form the "core" data set of 53 chemicals. This criterion was also used for the freshwater fish database, resulting in a core data set of 13 chemicals (Table 4). For freshwater invertebrates, only five chemicals met the 10-species criterion (Table 4). A lack of diversity of tested saltwater species (both fishes and invertebrates) and "amphibia and others" resulted in no chemicals meeting the 10-species criterion, so these categories of organisms were not further evaluated. Each of the four previously described methods of analysis was applied to the taxa-specific data sets for freshwater fish and freshwater invertebrates. The commonly tested freshwater species used in this analysis are listed in Table 5. For Method 4 (ERA analysis of limited data sets), four freshwater species combinations were evaluated (Table 6).

### **Comparison of Results Obtained with Taxa-Specific vs. Combined Core Data Sets**

Finally, the results obtained using the segregated taxa-specific data sets were compared to the results obtained with the original combined core data set. Error values were calculated in a manner similar to other comparisons. The 5<sup>th</sup> percentile LC50 values derived from the taxa-specific data sets were divided by the respective 5<sup>th</sup> percentile values derived from the original combined core data set, yielding estimates of "error".

## **Results and Discussion**

### **Results with Combined Data Set**

A summary of the extrapolation factors developed for Methods 1 and 2 is presented in Table 7. Estimates of the 5<sup>th</sup> percentile LC50 values obtained using Methods 1 and 2 are presented in Tables 8 and 9. Values for the equations derived for each species for use with Method 3 are presented in Table 10. Estimates of the 5<sup>th</sup> percentile LC50 values obtained using Methods 3 and 4 are presented in Tables 11 and 12. Error values calculated for the four methods are presented in Tables 13-16. Summary statistics for the error analysis for the four methods are presented in Table 17.

**Method 1: Simple extrapolation factors** resulted in median error values that were very close to 1.0 for all 10 commonly tested species (Table 17). An error value of 1.0 represents perfect correspondence of 5<sup>th</sup> percentile LC50 estimates. Thus, a median value of 1.0 simply suggests that one is equally likely to over-predict as to under-predict the LC50 using this method. However, mean error values were quite high, ranging from 7.3 for stonefly to 14,000 for scud. Minimum and maximum values ranged widely. Of the ten species evaluated, extrapolation factors based on stonefly data provided 5<sup>th</sup> percentile LC50 estimates that were closest to those predicted by the ERA program using the core data set.

**Method 2: Simple extrapolation factors using log-transformed data** resulted in median error values ranging from 0.8 for channel catfish to 2.8 for mysid shrimp (Table 17). Mean error values were much lower than with Method 1, but still ranged from 4.2 for stonefly to 50 for sheepshead minnow. Again, minimum and maximum values ranged widely. As before, extrapolation factors based on stonefly data provided estimates that were most similar to those of the ERA program.

Success with either Method 1 or 2 depends upon the tested species occupying a relatively constant position within the range of sensitivities of all species within the aquatic community. Our analysis suggests that this is not the case (Table 18). For example, the mean and median percentile ranking for rainbow trout across the 53 chemicals in the core data set was 50. However, it was the most sensitive species to trifluralin with a percentile ranking of 7.7, while being the least sensitive species to coumaphos with a ranking of 91. Similar variability in sensitivity across chemicals was observed for each of the other commonly tested species. This variability in relative sensitivity is the primary contributor to the lack of consistency of these two predictive methods.

**Method 3: Regression analysis of log-transformed values** resulted in median error values ranging from 0.7 for bluegill and mysid shrimp to 1.1 for Eastern oyster (Table 17). Mean error values were smaller than mean values obtained with Method 1 and were generally smaller than, or similar to, values obtained by Method 2, ranging from 2.8 for stonefly to 48 for Eastern oyster. Minimum and maximum values generally ranged less widely than either Method 1 or 2. As with both previous methods, stonefly data provided estimates that were closest to those predicted by the ERA program using the combined core data set.

**Method 4: ERA with limited data sets** provided the most satisfactory results. Median error values obtained for the six species combinations ranged from 0.4 to 0.9 (Table 17). Mean error values were much smaller than with the other methods, ranging from 0.9 to 5.2. Minimum and maximum error values ranged from 0.01 to 36, still a wide range, but the range was smaller than with any of the three other methods. Species combinations A (rainbow trout, bluegill, daphnia, and mysid shrimp), D (rainbow trout, bluegill, daphnia, mysid shrimp, and channel catfish), E (rainbow trout, bluegill, daphnia, mysid shrimp, and fathead minnow), and F (rainbow trout, bluegill, daphnia, mysid shrimp, channel catfish, and fathead minnow) provided median error values ranging from 0.4 to 0.6. Species combinations B (rainbow trout, bluegill, daphnia, and channel catfish) and C (rainbow trout, bluegill, daphnia, and fathead minnow), provided estimates that were closer to the original ERA values, with median error values of 0.9. However, mean error values for species combinations A, D, E, and F were closer to original ERA values, ranging from 0.9 to 1.0. Although there was still a wide range in minimum and maximum values, the range was much smaller than for any of the other three methods (particularly in terms of maximum values). The minimum error value obtained with species combinations A, D, E, and F was 0.01 for species combination A with methyl parathion; the maximum error value for these species combinations was 4.0 for species combination E with pentachlorophenol. Overall, species combinations A, D, E, and F provided estimates for the 5<sup>th</sup> percentile LC50 that were closest to those resulting from the original ERA analysis of the combined core data set.

**Analysis by chemical class** provided results that were generally less variable than those obtained from the previous analysis using the entire combined core data set, which includes a wide range of chemicals with differing biochemical modes of action. A summary of the extrapolation factors developed for Methods 1 and 2 with cholinesterase inhibitors is presented in Table 19. Estimates of the 5<sup>th</sup> percentile LC50 values obtained for cholinesterase inhibitors using Methods 1 and 2 are presented in Tables 20 and

21. Values for the equations derived for each species for use with Method 3 are presented in Table 22. Estimates of the 5<sup>th</sup> percentile LC50 values obtained for cholinesterase inhibitors using Methods 3 and 4 are presented in Tables 23 and 24. Error values calculated for the four methods are presented in Tables 25-28. Summary statistics for the error analysis with cholinesterase inhibitors are presented in Table 29.

By limiting the evaluation to data obtained with cholinesterase inhibitors, Methods 1 and 2 provided results that more closely approximated those obtained with the ERA program (Table 29) than in the previous analysis of the entire combined core data set. For Method 1 (excluding Eastern oyster and scud), mean error values ranged from 3.1 with channel catfish to 17 with sheepshead minnows, while median values ranged from 1.0 to 1.2 for all 10 species. For Method 2, mean error values ranged from 2.1 for Eastern oysters to 39 for scud, with median values ranging from 1.0 to 3.1. Method 3 also provided closer predictions with mean error values ranging from 2.7 to 8.0 and median values of 0.7 to 3.0. However, as with the analysis of the larger data set, minimum and maximum values for each of the three methods ranged rather widely. Also as with the larger data set, results with Method 4 were generally more satisfactory, providing less variable results than the other three methods.

## Results with Taxa-Specific Core Data Sets

The extrapolation factors developed for the taxa-specific core data sets for use with Methods 1 and 2 are presented in Table 30. Estimates of the 5<sup>th</sup> percentile LC50 values obtained using the Methods 1 and 2 are presented in Tables 31 and 32. Values for the equations derived for each species for use with Method 3 are presented in Table 33. Estimates of the 5<sup>th</sup> percentile LC50 values obtained using Methods 3 and 4 with the taxa-specific data sets are presented in Tables 34 and 35. Error values calculated for the four methods are presented in Tables 36-39. Summary statistics for the error analysis for the four methods with taxa-specific data sets are presented in Table 40.

**Method 1: Simple extrapolation factors** provided results that were an improvement over the results obtained with the larger combined data set. Median error values were again close to 1.0 for all tested species (Table 40). Mean error values were generally higher than median values, ranging from 1.3 for scud to 310 for channel catfish. However, these values are much closer to 1.0 than the previous analysis using the larger combined core data set. In the previous analysis, mean error values ranged from a minimum of 7.3 for stonefly to 14,000 for scud (Table 17). Minimum and maximum values also ranged much less widely than in the previous combined analysis. Extrapolation

tion factors based on scud data provided 5<sup>th</sup> percentile LC50 estimates that were closest to those predicted by the ERA program using the taxa-specific core data sets. Among freshwater fish, rainbow trout and bluegill gave the most satisfactory results.

**Method 2: Simple extrapolation factors using log-transformed data** generally showed no improvement as a result of using the taxa-specific data sets. Median error values ranged from 0.4 for channel catfish to 33 for scud (Table 40). This compares to 0.8 for channel catfish to 2.8 for mysid shrimp in the previous analysis (Table 17). Mean error values were generally lower for freshwater fish and higher for freshwater invertebrates than with Method 1, but still ranged from 1.3 for rainbow trout to 58 for channel catfish and stonefly. As with Method 1, minimum and maximum values generally ranged less widely than with the analysis using the larger combined core data set and rainbow trout and bluegill gave the most satisfactory results.

Success with either Method 1 or 2 depends upon the tested species occupying a relatively constant position within the range of sensitivities of all species within the aquatic community. Our analysis suggests that this is not the case, even using the taxa-specific core data sets (Table 41). For example, the mean and median percentile rankings for rainbow trout across the 13 chemicals in the freshwater fish core data set were 31 and 25, respectively. However, while the rainbow trout was the most sensitive of the four freshwater fish species to several chemicals in the taxa-specific core data set, it was also the least sensitive to clonazepam with a percentile ranking of 84. Similar variability in sensitivity across chemicals was observed for each of the other freshwater fish and invertebrate species, although catfish and fathead minnows were never the most sensitive species. This variability in relative sensitivity is the primary contributor to the lack of consistency of these two predictive methods.

**Method 3: Regression analysis of log-transformed values** also showed a similar lack of improvement as a result of using the taxa-specific data sets. Median error values ranged from 0.2 for channel catfish to 0.9 rainbow trout (Table 40). This compares to 0.7 for bluegill and mysid shrimp to 1.1 for Eastern oyster in the previous analysis (Table 17). Mean error values ranged from 1.3 for rainbow trout to 73 for channel catfish compared to 2.8 for stonefly to 48 for Eastern oyster in the analysis of the larger combined data set. As with the larger data set, minimum and maximum values obtained with Method 3 generally ranged less widely than with either Method 1 or 2. A lack of sufficient data precluded analysis of freshwater invertebrates with Method 3.

**Method 4: ERA with limited data sets** again provided the most satisfactory results. Median error values obtained for the freshwater fish species combinations A (rainbow trout, bluegill, channel catfish, and fathead minnows), B (rainbow trout, bluegill, and channel catfish), and C (rainbow trout, bluegill, and fathead minnows) ranged from 0.9 to 1.0 (Table 40). Mean error values ranged from 1.1 to 1.3. Minimum and maximum error values ranged from 0.12 to 3.5, which is smaller than the range obtained with the larger combined data set (Table 17). The freshwater invertebrate species combination D (daphnia, scud, and stonefly) provided a median error value of 2.4 and a mean error value of 4.9. Analysis with this invertebrate species combination using Method 4 was based on only four chemicals, so the results should be used with caution.

**Analysis by chemical class** provided results that were generally similar to those obtained using the complete taxa-specific core data sets. Insufficient data existed for evaluation of the freshwater invertebrates. For the freshwater fishes, the extrapolation factors developed for Methods 1 and 2 with the cholinesterase inhibitors are presented in Table 42. Estimates of the 5<sup>th</sup> percentile LC50 values obtained for cholinesterase inhibitors with the taxa-specific core data sets, using Methods 1 and 2, are presented in Tables 43 and 44. Values for the equations derived for each species for use with Method 3 are presented in Table 45. Estimates of the 5<sup>th</sup> percentile LC50 values obtained for cholinesterase inhibitors with the taxa-specific data sets using Methods 3 and 4 are presented in Tables 46 and 47. Error values calculated for each of the four methods are presented in Tables 48-51. Summary statistics for the error analysis for the four methods with cholinesterase inhibitors from the taxa-specific core data sets are presented in Table 52.

Contrary to the improvement obtained by specific consideration of cholinesterase inhibitors with the larger combined core data set, limiting the taxa-specific data sets to cholinesterase inhibitors failed to substantially reduce variability (Table 52). This is likely a result of having restricted the core data set to the point that it was too limited. As previously mentioned, insufficient data existed for evaluation of freshwater invertebrates, and for freshwater fishes, sufficient data existed for only 6 chemicals.

## Comparison of Results Obtained with Taxa-Specific vs. Combined Core Data Sets

As previously mentioned, Methods 1 and 4 provided approximations of 5<sup>th</sup> percentile LC50 values that were closer to the 5<sup>th</sup> percentile estimates derived from the taxa-specific core data sets than those derived from the larger combined core data set. This is not completely unexpected in

that the individual comparisons were made based upon data from more closely related taxa. Additionally, since the smaller taxa-specific core data sets contain fewer data points, less variability could be expected. Also, with the smaller data sets, the data for an individual species contributes a greater proportion of the total available data. Thus, it has a greater influence on the estimate of the "true" value. However, if the goal is to produce an estimate for a theoretical 5<sup>th</sup> percentile most-sensitive freshwater fish and a separate estimate for a freshwater invertebrate, then use of the taxa-specific methodologies appears to be superior.

Table 53 presents comparisons of the estimated 5<sup>th</sup> percentile values derived from the larger combined core data set and the estimates based on the taxa-specific core data sets. Table 54 examines the relation between the two methods using "error value" calculations as previously described. For this comparison, the "error value" is used simply to indicate whether a particular 5<sup>th</sup> percentile LC50 estimate derived from a taxa-specific data set is higher or lower than the corresponding estimate derived from the combined data set; not as an estimate of accuracy. In each instance, 5<sup>th</sup> percentile LC50s based upon the freshwater fish core data set were higher than those based upon the larger combined core data set. For all but endrin, 5<sup>th</sup> percentile LC50s based upon the freshwater invertebrate core data set were lower than those based upon the larger combined core data set. In other words, 5<sup>th</sup> percentile estimates based on fish only were higher than those based on all species combined, while 5<sup>th</sup> percentile estimates based on invertebrates only were lower than those based on all species.

## Conclusions

Clearly, it is desirable to have high quality acute toxicity values for as many species as possible for predicting acute toxicity values for sensitive members of the aquatic community. However, it is often necessary to make predictions for new chemicals based upon limited data. Variability in sensitivity of commonly tested species across chemicals causes simple extrapolation factors (Methods 1 and 2) to be of limited utility. Equations derived from regression analysis (Method 3) provided more satisfactory predictions, but estimates based upon a single acute toxicity value from a single test species would still be of arguable utility. The current analysis suggests that using the ERA program with a minimum data set comprised of acute toxicity values for rainbow trout, bluegill, daphnia, and mysid shrimp (Method 4) provides the best estimates of a taxa-nonspecific 5<sup>th</sup> percentile LC50 value with the least amount of information. Obtaining acute toxicity values for these four species using standardized test conditions should not be an onerous undertaking, given the importance of protecting the

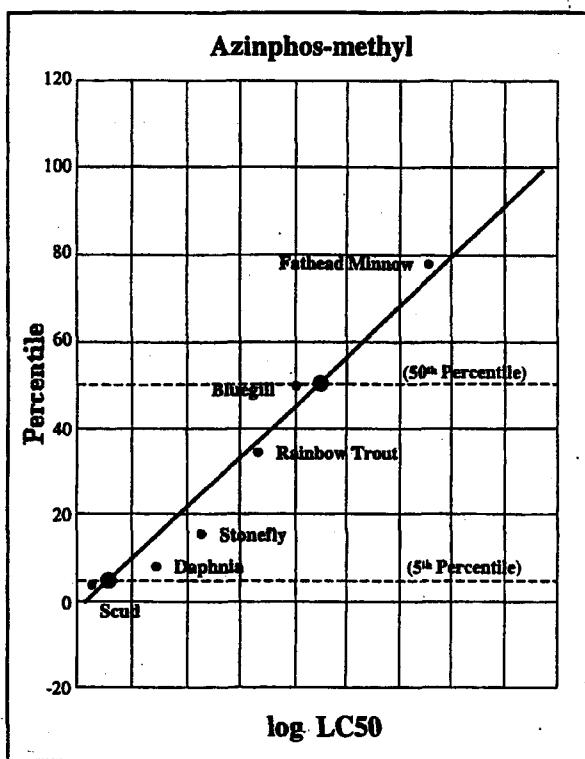
aquatic community. More specific evaluations, focused on cholinesterase inhibitors, suggest that each of the four methods performed better with the combined species data set when applied within chemical classes.

The use of taxa-specific core data sets resulted in better correspondence between 5<sup>th</sup> percentile LC50 value estimates when using Methods 1 and 4. This is not completely unexpected in that the individual comparisons are made based upon data from more closely related taxa and each data point contributes more heavily to the estimate of the "true" 5<sup>th</sup> percentile LC50. However, the use of taxa-specific procedures is more compatible with current OPP procedures, since separate estimates can be derived for freshwater fish and freshwater invertebrates. Unfortunately, similar evaluations cannot be made for saltwater organisms, due to the lack of species diversity in extant data. It is also important to note that, although the number of chemicals with sufficient information with freshwater invertebrates was quite limited, our results support the conventional wisdom that invertebrates are generally more sensitive to contaminants than fish. Estimates of 5<sup>th</sup> percentile LC50 values using invertebrate data only were generally lower than those based on fish-only data, and were also lower than those based on the original combined data set. Thus, the most conservative approach (estimating the lowest number) would suggest using invertebrate data only. In any event, the best correspondence was obtained using the ERA program with limited combinations of fish species (Method 4).

If simple extrapolation factors for single species must be used, the most satisfactory results were obtained using Method 1 with median extrapolation factors derived from taxa-specific core data sets with rainbow trout, bluegill, or scud. Those extrapolation factors are 0.412 for rainbow trout, 0.331 for bluegill, and 0.041 for scud. Use of these simple extrapolation factors with Method 1 resulted in mean error values ( $\pm$  95% CI) of 1.5 ( $\pm$  0.36), 2.0 ( $\pm$  0.52), and 1.3 ( $\pm$  0.40) for rainbow trout, bluegill, and scud, respectively.

An important caveat for each of these conclusions is that they are based upon evaluation of the very small number of chemicals for which sufficient information exists. By augmenting our existing toxicity database through the addition of data for a few more species, more chemicals and chemical classes could be included in the analysis. Thus, generation of a relatively small amount of additional data could significantly improve our ability to evaluate species sensitivity relationships. Also, further analyses of the data should be conducted using log-logistic, log-triangular, maximum likelihood, bootstrap, and censored data techniques (Posthuma et al. 2002) to fully explore the concept of extrapolation factors. Finally, it should be noted that 5<sup>th</sup> per-

centile LC50 estimates are not protective levels *per se*. In theory, the 5<sup>th</sup> percentile LC50 represents a contaminant concentration at which greater than (or equal to) 50% mortality would occur in 5% of the species comprising the aquatic community, while less than 50% mortality would occur in the remaining 95% of species. An appropriate use of the 5<sup>th</sup> percentile LC50 estimate would be its inclusion, along with acute toxicity values for species that have been tested, in subsequent methods for predicting protective levels.



**Figure 1.** Example of ERA analysis for azinphos-methyl, indicating LC50s for selected species and predicted 5<sup>th</sup> and 50<sup>th</sup> percentile LC50s.

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**Table 1. Chemicals for which ten or more species were represented in the final database.**

Chemical Name	CAS Number	Chemical Name	CAS Number
Aminocarb	2032-59-9	Fenthion	55-38-9
Antimycin A	1397-94-0	Fenvalerate	51630-58-1
Azinphos-methyl	86-50-0	Folpet	133-07-3
Cadmium chloride	10108-64-2	Glyphosate	1071-83-6
Captan	133-06-2	Heptachlor	76-44-8
Carbaryl	63-25-2	Hexachlorocyclohexane	58-89-9
Chlordane	57-74-9	Malathion	121-75-5
Chlordecone	143-50-0	Methiocarb	2032-65-7
Chlorpyrifos	2921-88-2	Methomyl	16752-77-5
Cloninalide	1420-04-8	Methoxychlor	72-43-5
Copper sulfate	7758-98-7	Methyl Parathion	298-00-0
Coumaphos	56-72-4	Metolachlor	51218-45-2
Cypermethrin	52315-07-8	Mexacarbate	315-18-4
DDD	72-54-8	Molinate	2212-67-1
DDT	50-29-3	Naled	300-76-5
DEF	78-48-8	Parathion	56-38-2
Demeton	8065-48-3	Pentachlorophenol	87-86-5
Diazinon	333-41-5	Permethrin	52645-53-1
Dichlorvos	62-73-7	Phosmet	732-11-6
Dieldrin	60-57-1	Phosphamidon	13171-21-6
Disulfoton	298-04-4	Piperonyl butoxide	51-03-6
Diuron	330-54-1	Thiobencarb/Benthiocarb	28249-77-6
Endosulfan	115-29-7	Toxaphene	8001-35-2
Endrin	72-20-8	Tributyltin oxide	56-35-9
EPN	2104-64-5	Trichlorfon	52-68-6
Ethion	563-12-2	Trifluralin	1582-09-8
Fenitrothion	122-14-5		

**Table 2. Commonly tested species used for evaluation of extrapolation factors. Abbreviations are those used in subsequent tables.**

<i>Species Common Name</i>	<i>Scientific Name</i>	<i>Abbreviated Name</i>	<i># Chemicals Tested</i>
Rainbow Trout	<i>Oncorhynchus mykiss</i>	RBT	440
Bluegill	<i>Lepomis macrochirus</i>	BLG	396
Water Flea	<i>Daphnia magna</i>	Daphnia	347
Mysid Shrimp	<i>Americanysis bahia</i>	Mysid	161
Channel Catfish	<i>Ictalurus punctatus</i>	CCF	126
Fathead Minnow	<i>Pimephales promelas</i>	FHM	123
Sheepshead Minnow	<i>Cyprinodon variegatus</i>	SHM	120
Eastern Oyster	<i>Crassostrea virginica</i>	E. Oyster	119
Scud	<i>Gammarus fasciatus</i>	Scud	79
Stonefly	<i>Pteronarcys californica</i>	Stonefly	57

**Table 3. Combinations of commonly tested species used for ERA analysis of limited data sets (Method 4).**

<b>Combination</b>	<b>Species</b>
A	Rainbow Trout, Bluegill, Daphnia, Mysid Shrimp
B	Rainbow Trout, Bluegill, Daphnia, Channel Catfish
C	Rainbow Trout, Bluegill, Daphnia, Fathead Minnow
D	Rainbow Trout, Bluegill, Daphnia, Mysid Shrimp, Channel Catfish
E	Rainbow Trout, Bluegill, Daphnia, Mysid Shrimp, Fathead Minnow
F	Rainbow Trout, Bluegill, Daphnia, Mysid Shrimp, Channel Catfish, Fathead Minnow

**Table 4. Chemicals for which ten or more species (Spp) were represented in the taxa-specific data sets.**

Freshwater Fish		Freshwater Invertebrates	
Chemical Name (CAS Number)	# Spp	Chemical Name (CAS Number)	# Spp
Antimycin A (1397-94-0)	12	Carbaryl (63-25-2)	11
Azinphos-methyl (86-50-0)	15	DDT (50-29-3)	17
Carbaryl (63-25-2)	17	Endrin (72-20-8)	15
Clonitralide (1420-04-8)	15	Malathion (121-75-5)	14
DDT (50-29-3)	18	Trichlorfon (52-68-6)	10
Fenitrothion (122-14-5)	11		
Hexachlorocyclohexane (58-89-9)	12		
Malathion (121-75-5)	13		
Methoxychlor (72-43-5)	12		
Methyl Parathion (298-00-0)	11		
Mexacarbate (315-18-4)	16		
Piperonyl butoxide (51-03-6)	10		
Toxaphene (8001-35-2)	11		

**Table 5. Commonly tested species used for evaluation of extrapolation factors with taxa-specific data sets.**

Species Common Name	Species Scientific Name	# Chemicals Tested
Rainbow Trout	<i>Oncorhynchus mykiss</i>	440
Bluegill	<i>Lepomis macrochirus</i>	396
Channel Catfish	<i>Ictalurus punctatus</i>	126
Fathead Minnow	<i>Pimephales promelas</i>	123
Water Flea	<i>Daphnia magna</i>	347
Scud	<i>Gammarus fasciatus</i>	79
Stonefly	<i>Pteronarcys californica</i>	57

**Table 6. Combinations of commonly tested species used for ERA analysis of limited taxa-specific data sets (Method 4).**

Combination	Species
A	Rainbow Trout, Bluegill, Channel Catfish, Fathead Minnow
B	Rainbow Trout, Bluegill, Channel Catfish
C	Rainbow Trout, Bluegill, Fathead Minnow
D	Daphnia, Scud, Stonefly

**Table 7. Extrapolation factors for commonly tested species developed from 53 chemicals in the core data set.**

	RBT	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
<i><b>Method 1-- Simple Extrapolation Factors</b></i>										
<b>Mean</b>	0.092	0.054	0.334	0.430	0.111	0.047	0.050	0.201	0.283	0.290
<b>Median</b>	0.029	0.021	0.099	0.254	0.006	0.009	0.004	0.006	0.082	0.137
<b>Std Dev</b>	0.154	0.083	0.523	0.544	0.407	0.097	0.079	0.468	0.486	0.341
<b>Minimum</b>	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.002
<b>Maximum</b>	0.703	0.350	2.214	2.269	2.598	0.417	0.233	1.800	2.024	1.225
<b>n</b>	51	51	36	25	42	41	27	27	31	29
<i><b>Method 2 -- Simple Extrapolation Factors Using Log-Transformed Data</b></i>										
<b>Mean</b>	2.858	0.084	0.388	1.038	-0.241	1.881	0.989	-0.067	-0.240	-0.432
<b>Median</b>	0.179	0.135	0.361	0.737	-0.005	-0.028	0.172	-0.032	0.133	-0.089
<b>Std Dev</b>	12.667	2.363	9.312	2.387	1.181	13.661	4.248	0.656	2.080	1.952
<b>Minimum</b>	-5.120	-10.121	-17.998	-0.884	-4.467	-7.301	-1.218	-1.284	-10.418	-8.519
<b>Maximum</b>	82.845	11.335	46.637	12.131	0.884	86.724	21.950	1.108	2.119	1.918
<b>n</b>	51	51	36	25	42	41	27	27	31	29

**Table 8. Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) calculated using simple extrapolation factors (Method 1).**

(Extrapolation Factor)	5th % SPP (from ERA)	RBT (0.029)	BLG (0.021)	Daphnia (0.099)	Mysid (0.254)	CCF (0.006)	FHM (0.009)	SHM (0.004)	E. Oyster (0.006)	Scud (0.082)	Stonefly (0.137)
<b>Aminocarb</b>	33.794	554.230	81.302	31.681		58.281	78.110				
<b>Antimycin A</b>	0.005	0.001	0.001			0.020	0.000		0.345		
<b>Azinphos-methyl</b>	0.259	0.150	0.201	0.109		19.174	1.714			0.012	0.261
<b>Cadmium chloride</b>	3.407	0.140	187.092	4.698		46.275	19.142				
<b>Captan</b>	5.640	2.112	4.440	831.626	2134.364	0.452					
<b>Carbaryl</b>	1.844	49.291	164.922	0.554	1.570	92.084	134.165	9.581		2.124	
<b>Chlordane</b>	2.078	0.769	1.210			0.005	1.057			3.267	2.059
<b>Chlordecone</b>	9.935	0.866	1.529	25.741	2.541	1.311			0.061		
<b>Chlorpyrifos</b>	0.101	0.313	0.096	0.041	0.011	1.632	2.531	1.082	0.297		1.373
<b>Clonitralide</b>	42.561	3.762	2.656			0.478	0.937			29.406	
<b>Copper sulfate</b>	4.974	3.895	18.773	0.990							
<b>Coumaphos</b>	0.041	25.679	7.220			4.896			1.614		
<b>Cypermethrin</b>	0.001	0.027	0.042	0.099	0.001			0.003	2.059		
<b>DDD</b>	0.460	2.020		0.881		8.742	40.433		0.139	0.049	
<b>DDT</b>	0.272	0.224	0.183	0.465		0.088	0.114		0.050	0.261	0.961
<b>DEF</b>	3.686	31.709	13.172	0.673	1.714	8.975		1.763	0.350	8.168	288.268
<b>Demeton</b>	12.333	17.312	2.336			21.564	26.649			6.371	
<b>Diazinon</b>	0.149	5.474	4.652	0.095			71.677	0.601		0.016	3.432
<b>Dichlorvos</b>	0.074	2.885	18.454		4.828		106.597	29.444	495.743	32672.865	0.014
<b>Dieldrin</b>	0.265	0.037	0.142			0.026	0.035		0.083	52.277	0.069
<b>Disulfoton</b>	4.006	67.973	0.828	1.287	25.409	27.392	39.514	4.006	4.006	3.061	0.686
<b>Diuron</b>	323.771	109.488	108.783		291.928		130.489	26.840	16.354	13.069	164.724
<b>Endosulfan</b>	0.089	0.023	0.040	27.259			0.013		0.234	0.490	0.316
<b>Endrin</b>	0.070	0.026	0.011	5.453			0.017	0.001	0.184	0.351	0.034
<b>EPN</b>	2.336		2.336		3.303	2.448		0.561	0.723	0.555	1.016
<b>Ethion</b>	0.124		3.509	0.006		44.293	6.616		0.223	0.336	0.384
<b>Fenitrothion</b>	0.620	59.997	70.507	1.089		30.905	34.087				0.620
<b>Fenthion</b>	0.047	20.962	36.102	0.539	0.046		29.406	4.807	1.838	8.985	0.618
<b>Fenvalerate</b>	0.022	0.025	0.015	0.136	0.003	0.014	0.009	0.092			

**Table 8 (Cont.). Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) calculated using simple extrapolation factors (Method 1).**

(Extrapolation Factor)	5th % SPP (from ERA)	RB <sub>T</sub> (0.029)	BLG (0.021)	Daphnia (0.099)	Mysid (0.254)	CCF (0.006)	FHM (0.009)	SHM (0.004)	E. Oyster (0.006)	Scud (0.082)	Stonefly (0.137)
<b>Folpet</b>	2.824	0.698	1.070	1.980	40.655	0.629		191.086	76.782	204.205	
<b>Glyphosate</b>	33178.259	3883.746	2012.048	13266.419	14283.435	757.650	891.368	961.440			
<b>Heptachlor</b>	0.444	0.444	0.276			0.146	0.211			4.574	0.151
<b>Hexachlorocyclohexane</b>	1.212	0.835	1.310			0.256	0.799		1.335	0.817	0.291
<b>Malathion</b>	0.559	3.315	1.176	0.099	0.559	52.278	79.488			0.062	1.373
<b>Methiocarb</b>	2.621	16.499	16.012	1.881							0.741
<b>Methomyl</b>	52.386	49.545	24.150	3.138	58.441	3.089	25.730	4.647			
<b>Methoxychlor</b>	0.937	0.726	1.011			0.303	0.358		0.501	0.155	0.192
<b>Methyl Parathion</b>	0.196	106.756	93.015	0.014	0.222	30.539	81.785	48.072		0.310	
<b>Metolachlor</b>	1802.797	112.527	212.364	2404.472	1245.045	28.558	73.515	35.248	8.902		
<b>Mexacarbate</b>	10.372	327.173	237.847			66.440	156.219			3.267	1.373
<b>Molinate</b>	416.543	195.605	503.601	1920.661	473.224		248.113	48.072	29.489	367.570	46.672
<b>Naled</b>	0.154	5.309	12.742	0.030			30.325	4.807	1.057		1.098
<b>Parathion</b>	0.065	28.500	5.452		0.030	15.444	10.016			0.106	0.741
<b>Pentachlorophenol</b>	9.106	2.128	1.274	40.193	81.309	0.390	1.783	0.881			
<b>Permethrin</b>	0.038	0.144	0.120	0.119	0.010	0.036	0.038	0.353			
<b>Phosmet</b>	1.068	10.648	2.538		4.065	61.778				0.163	
<b>Phosphamidon</b>	0.698	225.054		1.257	30.237	407.966	918.937	296.444	439.547	0.698	20.591
<b>Piperonyl butoxide</b>	414.040	93.680	95.245	50.492		37.300	56.974	10.668	1.280		
<b>Thiobencarb/Benthiocarb</b>	132.813	33.181	52.666	9.999	66.977	13.288		2.636			
<b>Toxaphene</b>	0.924	0.186	0.124	0.990		0.027	0.158		0.189	2.124	0.316
<b>Tributyltin oxide</b>	0.151	0.186	0.228	1.139		0.070		0.064	0.001		
<b>Trichlorfon</b>	0.730	41.873	51.048			15.072	72.596	57.286			4.804
<b>Trifluralin</b>	37.339	1.749	2.848			12.822	1.174	0.641		179.701	384.357

**Table 9. Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) calculated using log-transformed data (Method 2).**

(Extrapolation Factor)	5th % SPP (from ERA)	RBT (0.179)	BLG (0.135)	Daphnia (0.361)	Mysid (0.737)	CCF (-0.005)	FHM (-0.028)	SHM (0.172)	E. Oyster (-0.032)	Scud (0.133)	Stonefly (-0.089)
Aminocarb	33.794	5.829	3.045	8.046		0.958	0.778				
Antimycin A	0.005	0.485	0.697			0.994	1.094		0.877		
Azinphos-methyl	0.259	1.343	1.354	1.035		0.963	0.865			0.777	0.945
Cadmium chloride	3.407	1.326	3.407	4.036		0.959	0.809				
Captan	5.640	2.154	2.056	26.217	778.175	0.980					
Carbaryl	1.844	3.782	3.349	1.864	3.826	0.956	0.766	3.803		1.541	
Chlordane	2.078	1.798	1.726			1.001	0.876			1.631	1.450
Chlordecone	9.935	1.837	1.781	7.464	5.454	0.975			0.926		
Chlorpyrifos	0.101	1.531	1.226	0.726	0.101	0.974	0.855	2.615	0.881		0.816
Clonitralide	42.561	2.388	1.919			0.980	0.879			2.184	
Copper sulfate	4.974	2.403	2.498	2.299							
Coumaphos	0.041	3.366	2.196			0.969			0.835		
Cypermethrin	0.001	0.985	1.096		0.019			0.947	0.828		
DDD	0.460	2.137		2.204		0.966	0.792		0.902	0.934	
DDT	0.272	1.442	1.337	1.750		0.987	0.932		0.932	1.167	0.842
DEF	3.686	3.496	2.382	2.000	4.081	0.966		2.844	0.876	1.842	0.508
Demeton	12.333	3.137	1.886			0.962	0.801			1.783	
Diazinon	0.149	2.554	2.069	0.985			0.779	2.364		0.808	0.752
Dichlorvos	0.074	2.278	2.492		8.751		0.771	4.611	0.695	5.538	1.226
Dieldrin	0.265	1.047	1.293			0.993	0.964		0.917	2.357	1.063
Disulfoton	4.006	4.006	1.640	2.527	29.746	0.961	0.792	3.274	0.811	1.617	0.867
Diuron	323.771	4.362	3.167		179.705		0.766	4.538	0.775	1.961	0.534
Endosulfan	0.089	0.963	1.090	7.620			0.991		0.888	1.268	0.929
Endrin	0.070	0.984	0.911	4.259			0.984	0.831	0.895	1.214	1.131
EPN	2.336		1.886		6.617	0.972		2.336	0.856	1.290	0.838
Ethion	0.124		1.992	0.353		0.959	0.833		0.889	1.206	0.913
Fenitrothion	0.620	3.918	2.987	2.379		0.961	0.796				0.875
Fenthion	0.047	3.246	2.729	1.845	0.286		0.799	3.378	0.831	1.866	0.875
Fenvalerate	0.022	0.972	0.956	1.122	0.041	0.996	1.001	1.713			

**Table 9 (Cont.). Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) calculated using log-transformed data (Method 2).**

(Extrapolation Factor)	5th % SPP (from ERA)	RBT (0.179)	BLG (0.135)	Daphnia (0.361)	Mysid (0.737)	CCF (-0.005)	FHM (-0.028)	SHM (0.172)	E. Oyster (-0.032)	Scud (0.133)	Stonefly (-0.089)
<b>Folpet</b>	2.824	1.767	1.697	2.953	42.054	0.978		6.357	0.738	2.824	
<b>Glyphosate</b>	33178.259	8.255	4.694	71.349	3157.062	0.946	0.727	8.390			
<b>Heptachlor</b>	0.444	1.630	1.414			0.985	0.916			1.706	0.992
<b>Hexachlorocyclohexane</b>	1.212	1.825	1.744			0.982	0.883		0.840	1.357	0.936
<b>Malathion</b>	0.559	2.335	1.719		1.788	0.958	0.777			0.964	0.816
<b>Methiocarb</b>	2.621	3.110	2.445	2.899							0.861
<b>Methomyl</b>	52.386	3.786	2.585	3.488	54.944	0.971	0.802	3.358			
<b>Methoxychlor</b>	0.937	1.780	1.684			0.982	0.903		0.866	1.089	0.971
<b>Methyl Parathion</b>	0.196	4.343	3.100	0.491	0.906	0.961	0.777	5.016		1.194	
<b>Metolachlor</b>	1802.797	4.384	3.466	38.482	523.148	0.961	0.779	4.756	0.790		
<b>Mexacarbate</b>	10.372	5.305	3.519			0.957	0.763			1.631	0.816
<b>Molinate</b>	416.543	4.839	3.894	35.480	256.517		0.753	5.016	0.761	3.053	0.597
<b>Naled</b>	0.154	2.540	2.371	0.647			0.798	3.378	0.846		0.832
<b>Parathion</b>	0.065	3.430	2.114		0.210	0.964	0.823			1.035	0.861
<b>Pentachlorophenol</b>	9.106	2.157	1.738	8.769	70.078	0.980	0.864	2.524			
<b>Permethrin</b>	0.038	1.333	1.263	1.068	0.095	0.991	0.961	2.157			
<b>Phosmet</b>	1.068	2.876	1.907		7.711	0.958				1.096	
<b>Phosphamidon</b>	0.698	4.962		2.506	33.813	0.949	0.726	6.855	0.698	1.329	0.642
<b>Piperonyl butoxide</b>	414.040	4.242	3.110	9.523		0.960	0.784	3.874	0.841		
<b>Thiobencarb/Benthiocarb</b>	132.813	3.524	2.871	5.303	60.749	0.964		3.047			
<b>Toxaphene</b>	0.924	1.395	1.268	2.299		0.993	0.924		0.894	1.541	0.929
<b>Tributyltin oxide</b>	0.151	1.395	1.377	2.418		0.988		1.610	1.068		
<b>Trichlorfon</b>	0.730	3.674	2.859			0.964	0.779	5.169			0.730
<b>Trifluralin</b>	37.339	2.083	1.937			0.965	0.874	2.390		2.777	0.495

**Table 10.** Values for equations used in Method 3 for prediction of 5<sup>th</sup> percentile LC50s from acute toxicity values for commonly tested species.

Parameter	RBT	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
<b>Intercept</b>	-1.220	-1.428	-0.854	-0.581	-0.913	-1.210	-1.781	-0.812	-0.353	-0.705
<b>Slope</b>	0.673 **	0.732 **	0.813 **	0.809 **	0.444 **	0.511 **	0.739 **	0.317	0.296 *	0.355 **
<b>r<sup>2</sup></b>	0.425	0.454	0.634	0.799	0.196	0.283	0.337	0.070	0.159	0.480
<b>n</b>	51	51	36	25	42	41	27	27	31	29

\*  $p \leq 0.05$

\*\*  $p \leq 0.01$

**Table 11. Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) calculated using regression analysis of log-transformed values (Method 3).**

Chemical	5th % SPP	GBT	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
Aminocarb	33.794	46.079	15.689	15.269		7.295	6.302				
Antimycin A	0.005	0.004	0.005			0.211	0.012		0.571		
Azinphos-methyl	0.259	0.183	0.193	0.151		4.452	0.894			0.253	0.300
Cadmium chloride	3.407	0.174	28.874	3.232		6.584	3.070				
Captan	5.640	1.085	1.867	217.821	393.188	0.843					
Carbaryl	1.844	9.039	26.327	0.568	1.147	8.937	8.312	5.212		1.163	
Chlordane	2.078	0.549	0.721			0.111	0.698			1.321	1.163
Chlordecone	9.935	0.595	0.855	12.894	1.692	1.353			0.330		
Chlorpyrifos	0.101	0.300	0.113	0.068	0.021	1.491	1.091	1.039	0.545		0.892
Clonitralide	42.561	1.600	1.281			0.864	0.657			2.531	
Copper sulfate	4.974	1.638	5.364	0.911							
Coumaphos	0.041	5.828	2.665			2.429			0.933		
Cypermethrin	0.001	0.057	0.062	0.140	0.004			0.013	1.007		
DDD	0.460	1.052		0.829		3.142	4.501		0.428	0.381	
DDT	0.272	0.239	0.181	0.493		0.408	0.224		0.310	0.625	0.706
DEF	3.686	6.717	4.139	0.666	1.231	3.179		1.491	0.574	1.733	29.662
Demeton	12.333	4.470	1.167			4.691	3.637			1.610	
Diazinon	0.149	2.059	1.932	0.135			6.033	0.673		0.275	1.626
Dichlorvos	0.074	1.338	5.298		2.844		7.389	11.954	5.742	20.179	0.044
Dieldrin	0.265	0.072	0.150			0.238	0.122		0.364	3.001	0.125
Disulfoton	4.006	11.223	0.546	1.128	10.904	5.217	4.448	2.735	1.245	1.296	0.566
Diuron	323.771	15.467	19.413		78.614		8.194	11.163	1.945	1.991	20.554
Endosulfan	0.089	0.052	0.059	13.511			0.073		0.505	0.753	0.340
Endrin	0.070	0.057	0.022	3.649			0.083	0.007	0.468	0.683	0.079
EPN	2.336		1.167		2.093	1.785		0.639	0.723	0.782	0.732
Ethion	0.124		1.571	0.013		6.458	1.784		0.497	0.674	0.387
Fenitrothion	0.620	10.318	14.135	0.984		5.504	4.125				0.530
Fenthion	0.047	5.084	8.658	0.556	0.066		3.825	3.130	0.972	1.782	0.528
Fenvalerate	0.022	0.054	0.029	0.181	0.008	0.179	0.060	0.168			

**Table 11 (Cont.). Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) calculated using regression analysis of log transformed values (Method 3).**

Chemical	5th % SPP	RBT	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
<b>Folpet</b>	2.824	0.515	0.659	1.601	15.951	0.977		47.643	3.177	4.493	
<b>Glyphosate</b>	33178.259	170.844	164.361	2072.526	1830.628	22.782	21.893	157.326		1.459	0.210
<b>Heptachlor</b>	0.444	0.380	0.244			0.510	0.307		0.878	0.876	0.323
<b>Hexachlorocyclohexane</b>	1.212	0.581	0.764			0.656	0.605			0.409	0.892
<b>Malathion</b>	0.559	1.469	0.706	0.140	0.497	6.950	6.359				0.595
<b>Methiocarb</b>	2.621	4.327	4.774	1.535							
<b>Methomyl</b>	52.386	9.070	6.451	2.328	21.394	1.980	3.572	3.053	0.643	0.536	0.246
<b>Methoxychlor</b>	0.937	0.529	0.632			0.706	0.402			0.658	
<b>Methyl Parathion</b>	0.196	15.205	17.310	0.028	0.236	5.475	6.454	17.175			
<b>Metolachlor</b>	1802.797	15.754	31.681	516.654	254.214	5.314	6.111	13.655	1.604	1.321	0.892
<b>Mexacarbate</b>	10.372	32.315	34.427			7.732	8.985			5.346	8.995
<b>Molinate</b>	416.543	22.856	59.621	430.328	116.225		11.382	17.175	2.345		0.770
<b>Naled</b>	0.154	2.017	4.039	0.053		0.047	4.045	2.205		0.479	0.595
<b>Parathion</b>	0.065	6.252	2.170			0.790	0.912	0.893			
<b>Pentachlorophenol</b>	9.106	1.090	0.749	18.527	27.945					0.544	
<b>Permethrin</b>	0.038	0.178	0.132	0.162	0.020	0.275	0.127	0.454			
<b>Phosmet</b>	1.068	3.223	1.240			2.475	7.485				
<b>Phosphamidon</b>	0.698	25.119		1.106	12.552	17.306	22.233	65.917	5.527	0.837	5.260
<b>Piperonyl butoxide</b>	414.040	13.925	17.616	22.305		5.983	5.364	5.643	0.866		
<b>Thiobencarb/Benthiocarb</b>	132.813	6.925	11.416	5.976	23.889	3.784		2.007			
<b>Toxaphene</b>	0.924	0.211	0.136	0.911		0.242	0.264		0.472	1.163	0.340
<b>Tributyltin oxide</b>	0.151	0.211	0.212	1.021		0.368		0.129	0.080		2.027
<b>Trichlorfon</b>	0.730	8.100	11.158			4.001	6.072	19.552		4.325	35.818
<b>Trifluralin</b>	37.339	0.955	1.349			3.724	0.737	0.706			

**Table 12. Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) calculated using the ERA program with limited data sets (Method 4).**

**Table 12 (Cont.). Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) calculated using the ERA program with limited data sets (Method 4).**

Chemical	5th % SPP (from ERA)	SPP Combination A	SPP Combination B	SPP Combination C	SPP Combination D	SPP Combination E	SPP Combination F
Folpet	2.824	7.961	10.161		11.007		
Glyphosate	33178.259	45789.322	85274.670	78180.760	50268.285	51159.935	54841.190
Heptachlor	0.444						
Hexachlorocyclohexane	1.212						
Malathion	0.559	0.156	0.107	0.109	0.069	0.071	0.118
Methiocarb	2.621						
Methomyl	52.386	13.140	13.809	11.083	22.431	19.582	29.411
Methoxychlor	0.937						
Methyl Parathion	0.196	0.001	0.004	0.005	0.005	0.005	0.013
Metolachlor	1802.797	1883.819	1883.819	2434.842	1849.136	2331.792	2249.508
Mexacarbate	10.372						
Molinate	416.543	1050.201		4982.670		1354.625	
Naled	0.154			0.048			
Parathion	0.065						
Pentachlorophenol	9.106	25.224	15.592	27.906	23.051	36.038	31.565
Permethrin	0.038	0.014	0.766	0.828	0.022	0.023	0.033
Phosmet	1.068						
Phosphamidon	0.698						
Piperonyl butoxide	414.040		300.565	299.900			
Thiobencarb/Benthiocarb	132.813	41.987	47.284		57.486		
Toxaphene	0.924		3.629	3.680			
Tributyltin oxide	0.151		5.517				
Trichlorfon	0.730						
Trifluralin	37.339						

**Table 13. Error values obtained using simple extrapolation factors (Method 1), calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).**

Chemical	5th % SPP	RB <sub>T</sub>	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
Aminocarb	1.000	16.400	2.406	0.937		1.725	2.311				
Antimycin A	1.000	0.101	0.293			3.986	0.074		68.992		
Azinphos-methyl	1.000	0.580	0.775	0.420		74.032	6.617			0.047	1.007
Cadmium chloride	1.000	0.041	54.914	1.379		13.582	5.618				
Captan	1.000	0.374	0.787	147.451	378.433	0.080					
Carbaryl	1.000	26.731	89.437	0.301	0.852	49.937	72.757	5.196		1.152	
Chlordane	1.000	0.370	0.583			0.002	0.509			1.572	0.991
Chlordecone	1.000	0.087	0.154	2.591	0.256	0.132			0.006		
Chlorpyrifos	1.000	3.096	0.950	0.404	0.112	16.157	25.063	10.709	2.944		13.591
Clonitralide	1.000	0.088	0.062			0.011	0.022			0.691	
Copper sulfate	1.000	0.783	3.774	0.199							
Coumaphos	1.000	626.323	176.106			119.405			39.354		
Cypermethrin	1.000	26.545	42.024	99.003	1.194			2.924	2058.639		
DDD	1.000	4.391		1.915		19.005	87.898		0.302	0.107	
DDT	1.000	0.822	0.671	1.711		0.324	0.419		0.184	0.961	3.533
DEF	1.000	8.602	3.573	0.183	0.465	2.435		0.478	0.095	2.216	78.206
Demeton	1.000	1.404	0.189			1.748	2.161			0.517	
Diazinon	1.000	36.742	31.220	0.638		481.054	4.033		0.110	23.032	
Dichlorvos	1.000	38.991	249.384		65.240		1440.495	397.893	6699.223	441525.202	0.186
Dieldrin	1.000	0.141	0.537			0.099	0.132		0.315	197.270	0.259
Disulfoton	1.000	16.968	0.207	0.321	6.343	6.838	9.864	1.000	1.000	0.764	0.171
Diuron	1.000	0.338	0.336		0.902		0.403	0.083	0.051	0.040	0.509
Endosulfan	1.000	0.262	0.451	306.286			0.144		2.626	5.507	3.547
Endrin	1.000	0.376	0.152	77.904			0.236	0.019	2.623	5.018	0.490
EPN	1.000		1.000		1.414	1.048		0.240	0.310	0.238	0.435
Ethion	1.000		28.297	0.045		357.205	53.358		1.795	2.710	3.100
Fenitrothion	1.000	96.769	113.721	1.757		49.847	54.980				1.000
Fenthion	1.000	445.999	768.124	11.468	0.987		625.659	102.281	39.109	191.171	13.143
Fenvalerate	1.000	1.116	0.689	6.187	0.150	0.623	0.400	4.184			

**Table 13 (Cont.). Error values obtained using simple extrapolation factors (Method 1), calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).**

Chemical	5th % SPP	RBT	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
<b>Folpet</b>	1.000	0.247	0.379	0.701	14.396	0.223		67.665	27.189	72.311	
<b>Glyphosate</b>	1.000	0.117	0.061	0.400	0.431	0.023	0.027	0.029			
<b>Heptachlor</b>	1.000	1.000	0.622			0.328	0.476			10.302	0.340
<b>Hexachlorocyclohexane</b>	1.000	0.689	1.081			0.212	0.660		1.102	0.674	0.240
<b>Malathion</b>	1.000	5.930	2.104	0.177	1.000	93.520	142.197			0.111	2.456
<b>Methiocarb</b>	1.000	6.295	6.109	0.718							0.283
<b>Methomyl</b>	1.000	0.946	0.461	0.060	1.116	0.059	0.491	0.089			
<b>Methoxychlor</b>	1.000	0.775	1.079			0.323	0.382		0.534	0.166	0.205
<b>Methyl Parathion</b>	1.000	544.675	474.568	0.071	1.133	155.812	417.272	245.265		1.584	
<b>Metolachlor</b>	1.000	0.062	0.118	1.334	0.691	0.016	0.041	0.020	0.005		
<b>Mexacarbate</b>	1.000	31.544	22.932			6.406	15.062			0.315	0.132
<b>Molinate</b>	1.000	0.470	1.209	4.611	1.136		0.596	0.115	0.071	0.882	0.112
<b>Naled</b>	1.000	34.477	82.739	0.193			196.915	31.216	6.865		7.131
<b>Parathion</b>	1.000	438.457	83.875		0.469	237.606	154.094			1.634	11.404
<b>Pentachlorophenol</b>	1.000	0.234	0.140	4.414	8.929	0.043	0.196	0.097			
<b>Permethrin</b>	1.000	3.798	3.146	3.124	0.274	0.956	1.000	9.277			
<b>Phosmet</b>	1.000	9.970	2.377		3.807	57.844				0.153	
<b>Phosphamidon</b>	1.000	322.427		1.801	43.319	584.478	1316.528	424.705	629.724	1.000	29.499
<b>Piperonyl butoxide</b>	1.000	0.226	0.230	0.122		0.090	0.138	0.026	0.003		
<b>Thiobencarb/Benthiocarb</b>	1.000	0.250	0.397	0.075	0.504	0.100		0.020			
<b>Toxaphene</b>	1.000	0.201	0.134	1.071		0.029	0.171		0.205	2.298	0.342
<b>Tributyltin oxide</b>	1.000	1.230	1.507	7.540		0.463		0.424	0.005		
<b>Trichlorfon</b>	1.000	57.360	69.929			20.647	99.447	78.474			6.581
<b>Trifluralin</b>	1.000	0.047	0.076			0.343	0.031	0.017		4.813	10.294

**Table 14.** Error values obtained using log-transformed data (Method 2), calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).

Chemical	5th % SPP	RBT	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
<b>Aminocarb</b>	1.000	0.172	0.090	0.238		0.028	0.023				
<b>Antimycin A</b>	1.000	97.041	139.433			198.851	218.733		175.342		
<b>Azinphos-methyl</b>	1.000	5.185	5.228	3.996		3.717	3.338			3.002	3.648
<b>Cadmium chloride</b>	1.000	0.389	1.000	1.185		0.281	0.237				
<b>Captan</b>	1.000	0.382	0.365	4.648	137.974	0.174					
<b>Carbaryl</b>	1.000	2.051	1.816	1.011	2.075	0.518	0.415	2.062		0.836	
<b>Chlordane</b>	1.000	0.865	0.830			0.482	0.422			0.785	0.698
<b>Chlordecone</b>	1.000	0.185	0.179	0.751	0.549	0.098			0.093		
<b>Chlorpyrifos</b>	1.000	15.159	12.137	7.188	1.000	9.643	8.469	25.890	8.721		8.075
<b>Clonotalide</b>	1.000	0.056	0.045			0.023	0.021			0.051	
<b>Copper sulfate</b>	1.000	0.483	0.502	0.462							
<b>Coumaphos</b>	1.000	82.104	53.560			23.633			20.357		
<b>Cypermethrin</b>	1.000	985.208	1096.483		19.275			947.401	828.174		
<b>DDD</b>	1.000	4.645		4.791		2.101	1.721		1.962	2.031	
<b>DDT</b>	1.000	5.302	4.915	6.433		3.630	3.428		3.428	4.290	3.095
<b>DEF</b>	1.000	0.948	0.646	0.542	1.107	0.262		0.771	0.238	0.500	0.138
<b>Demeton</b>	1.000	0.254	0.153			0.078	0.065			0.145	
<b>Diazinon</b>	1.000	17.139	13.889	6.613			5.231	15.865		5.421	5.047
<b>Dichlorvos</b>	1.000	30.777	33.681		118.262		10.416	62.313	9.396	74.833	16.569
<b>Dieldrin</b>	1.000	3.953	4.878			3.747	3.636		3.461	8.894	4.012
<b>Disulfoton</b>	1.000	1.000	0.409	0.631	7.425	0.240	0.198	0.817	0.202	0.404	0.216
<b>Diuron</b>	1.000	0.013	0.010		0.555		0.002	0.014	0.002	0.006	0.002
<b>Endosulfan</b>	1.000	10.819	12.242	85.623			11.133		9.974	14.252	10.437
<b>Endrin</b>	1.000	14.054	13.010	60.849			14.054	11.870	12.779	17.336	16.151
<b>EPN</b>	1.000		0.807		2.833	0.416		1.000	0.367	0.552	0.359
<b>Ethion</b>	1.000		16.066	2.845		7.734	6.716		7.170	9.729	7.362
<b>Fenitrothion</b>	1.000	6.319	4.817	3.838		1.549	1.283				1.411
<b>Fenthion</b>	1.000	69.071	58.056	39.259	6.076		16.998	71.874	17.684	39.698	18.624
<b>Fenvalerate</b>	1.000	44.163	43.435	50.997	1.850	45.273	45.510	77.858			

**Table 14 (Cont.). Error values obtained using log-transformed data (Method 2), calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).**

Chemical	5th % SPP	RBT	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
<b>Folpet</b>	1.000	0.626	0.601	1.046	14.892	0.346		2.251	0.261	1.000	
<b>Glyphosate</b>	1.000	0.000	0.000	0.002	0.095	0.000	0.000	0.000			
<b>Heptachlor</b>	1.000	3.671	3.184			2.219	2.064			3.842	2.233
<b>Hexachlorocyclohexane</b>	1.000	1.506	1.439			0.811	0.729		0.693	1.120	0.772
<b>Malathion</b>	1.000	4.177	3.075		3.198	1.714	1.390			1.725	1.459
<b>Methiocarb</b>	1.000	1.187	0.933	1.106							0.329
<b>Methomyl</b>	1.000	0.072	0.049	0.067	1.049	0.019	0.015	0.064			
<b>Methoxychlor</b>	1.000	1.900	1.798			1.048	0.964		0.925	1.162	1.036
<b>Methyl Parathion</b>	1.000	22.156	15.818	2.507	4.621	4.901	3.962	25.592		6.091	
<b>Metolachlor</b>	1.000	0.002	0.002	0.021	0.290	0.001	0.000	0.003	0.000		
<b>Mexacarbate</b>	1.000	0.511	0.339			0.092	0.074			0.157	0.079
<b>Molinate</b>	1.000	0.012	0.009	0.085	0.616		0.002	0.012	0.002	0.007	0.001
<b>Naled</b>	1.000	16.492	15.395	4.202			5.183	21.936	5.493		5.402
<b>Parathion</b>	1.000	52.763	32.527		3.226	14.827	12.665			15.930	13.251
<b>Pentachlorophenol</b>	1.000	0.237	0.191	0.963	7.696	0.108	0.095	0.277			
<b>Permethrin</b>	1.000	35.089	33.228	28.102	2.502	26.091	25.297	56.763			
<b>Phosmet</b>	1.000	2.693	1.786		7.220	0.897				1.027	
<b>Phosphamidon</b>	1.000	7.109		3.591	48.443	1.360	1.040	9.821	1.000	1.904	0.919
<b>Piperonyl butoxide</b>	1.000	0.010	0.008	0.023		0.002	0.002	0.009	0.002		
<b>Thiobencarb/Benthiocarb</b>	1.000	0.027	0.022	0.040	0.457	0.007		0.023			
<b>Toxaphene</b>	1.000	1.510	1.373	2.488		1.074	1.000		0.967	1.668	1.005
<b>Tributyltin oxide</b>	1.000	9.238	9.121	16.012		6.546		10.660	7.075		
<b>Trichlorfon</b>	1.000	5.032	3.917			1.320	1.067	7.081			1.000
<b>Trifluralin</b>	1.000	0.056	0.052			0.026	0.023	0.064		0.074	0.013

**Table 15.** Error values obtained using regression analysis of log-transformed values (Method 3), calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).

Chemical	5th % SPP	RBT	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
Aminocarb	1.000	1.364	0.464	0.452		0.216	0.186				
Antimycin A	1.000	0.777	1.055			42.182	2.378		114.296		
Azinphos-methyl	1.000	0.707	0.747	0.584		17.191	3.451			0.976	1.159
Cadmium chloride	1.000	0.051	8.475	0.949		1.933	0.901				
Captan	1.000	0.192	0.331	38.621	69.714	0.149					
Carbaryl	1.000	4.902	14.277	0.308	0.622	4.847	4.508	2.826		0.631	
Chlordane	1.000	0.264	0.347			0.053	0.336			0.636	0.560
Chlordecone	1.000	0.060	0.086	1.298	0.170	0.136			0.033		
Chlorpyrifos	1.000	2.969	1.116	0.674	0.211	14.763	10.804	10.287	5.397		8.828
Clonitralide	1.000	0.038	0.030			0.020	0.015			0.059	
Copper sulfate	1.000	0.329	1.078	0.183							
Coumaphos	1.000	142.140	65.000			59.240			22.747		
Cypermethrin	1.000	57.016	61.574	139.991	3.610			13.119	1007.474		
DDD	1.000	2.288		1.801		6.830	9.785		0.931	0.828	
DDT	1.000	0.880	0.664	1.812		1.500	0.822		1.139	2.299	2.595
DEF	1.000	1.822	1.123	0.181	0.334	0.862		0.404	0.156	0.470	8.047
Demeton	1.000	0.362	0.095			0.380	0.295			0.131	
Diazinon	1.000	13.820	12.963	0.909			40.487	4.516		1.848	10.910
Dichlorvos	1.000	18.083	71.593		38.439		99.855	161.536	77.601	272.689	0.589
Dieldrin	1.000	0.271	0.568			0.899	0.461		1.375	11.325	0.472
Disulfoton	1.000	2.801	0.136	0.282	2.722	1.302	1.110	0.683	0.311	0.323	0.141
Diuron	1.000	0.048	0.060		0.243		0.025	0.034	0.006	0.006	0.063
Endosulfan	1.000	0.588	0.669	151.813			0.821		5.674	8.465	3.824
Endrin	1.000	0.810	0.321	52.132			1.190	0.107	6.683	9.752	1.135
EPN	1.000		0.499		0.896	0.764		0.274	0.309	0.335	0.313
Ethion	1.000		12.673	0.108		52.081	14.384		4.010	5.433	3.122
Fenitrothion	1.000	16.642	22.799	1.588		8.878	6.653				0.854
Fenthion	1.000	108.169	184.205	11.820	1.408		81.377	66.604	20.678	37.914	11.241
Fenvalerate	1.000	2.459	1.327	8.245	0.356	8.115	2.741	7.638			

**Table 15 (Cont.). Error values obtained using regression analysis of log-transformed values (Method 3), calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).**

Chemical	5th % SPP	RBT	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
<b>Folpet</b>	1.000	0.182	0.233	0.567	5.649	0.346		16.871	1.125	1.591	
<b>Glyphosate</b>	1.000	0.005	0.005	0.062	0.055	0.001	0.001	0.005			
<b>Heptachlor</b>	1.000	0.855	0.550			1.149	0.690			3.286	0.473
<b>Hexachlorocyclohexane</b>	1.000	0.479	0.630			0.541	0.499		0.725	0.723	0.266
<b>Malathion</b>	1.000	2.628	1.263	0.250	0.889	12.433	11.376			0.731	1.595
<b>Methiocarb</b>	1.000	1.651	1.822	0.586							0.227
<b>Methomyl</b>	1.000	0.173	0.123	0.044	0.408	0.038	0.068	0.058			
<b>Methoxychlor</b>	1.000	0.564	0.674			0.754	0.429		0.687	0.572	0.262
<b>Methyl Parathion</b>	1.000	77.579	88.317	0.144	1.202	27.935	32.926	87.628		3.358	
<b>Metolachlor</b>	1.000	0.009	0.018	0.287	0.141	0.003	0.003	0.008	0.001		
<b>Mexacarbate</b>	1.000	3.116	3.319			0.745	0.866			0.127	0.086
<b>Molinate</b>	1.000	0.055	0.143	1.033	0.279		0.027	0.041	0.006	0.013	0.022
<b>Naled</b>	1.000	13.100	26.229	0.341			25.228	20.327	5.295		5.002
<b>Parathion</b>	1.000	96.180	33.380		0.727	62.228	33.922			7.370	9.160
<b>Pentachlorophenol</b>	1.000	0.120	0.082	2.035	3.069	0.087	0.100	0.098			
<b>Permethrin</b>	1.000	4.689	3.484	4.270	0.521	7.246	3.354	11.935			
<b>Phosmet</b>	1.000	3.017	1.161		2.318	7.009				0.510	
<b>Phosphamidon</b>	1.000	35.987		1.585	17.982	24.794	31.853	94.438	7.919	1.199	7.536
<b>Piperonyl butoxide</b>	1.000	0.034	0.043	0.054		0.014	0.013	0.014	0.002		
<b>Thiobencarb/Benthiocarb</b>	1.000	0.052	0.086	0.045	0.180	0.028		0.015			
<b>Toxaphene</b>	1.000	0.229	0.147	0.986		0.262	0.285		0.511	1.258	0.368
<b>Tributyltin oxide</b>	1.000	1.399	1.405	6.759		2.439		0.852	0.529		
<b>Trichlorfon</b>	1.000	11.096	15.285			5.481	8.317	26.784			2.776
<b>Trifluralin</b>	1.000	0.026	0.036			0.100	0.020	0.019		0.116	0.959

**Table 16.** Error values obtained using the ERA program with limited data sets (Method 4), calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).

Chemical	5th % SPP (from ERA)	SPP Combination A	SPP Combination B	SPP Combination C	SPP Combination D	SPP Combination E	SPP Combination F
Aminocarb	1.000		4.321	4.393			
Antimycin A	1.000						
Azinphos-methyl	1.000		0.093	0.784			
Cadmium chloride	1.000		0.104	0.172			
Captan	1.000	1.806	0.655		1.191		
Carbaryl	1.000	0.073	0.557	0.553	0.178	0.179	0.357
Chlordane	1.000						
Chlordecone	1.000	0.441	1.695		0.605		
Chlorpyrifos	1.000	0.119	0.703	0.713	0.099	0.099	0.158
Clonitralide	1.000						
Copper sulfate	1.000						
Coumaphos	1.000						
Cypermethrin	1.000	1.000					
DDD	1.000						
DDT	1.000		12.919	14.165			
DEF	1.000	0.103	0.463		0.211		
Demeton	1.000						
Diazinon	1.000			0.953			
Dichlorvos	1.000						
Dieldrin	1.000						
Disulfoton	1.000	0.438	0.330	0.335	0.606	0.620	0.947
Diuron	1.000						
Endosulfan	1.000			0.213			
Endrin	1.000			0.657			
EPN	1.000						
Ethion	1.000						
Fenitrothion	1.000		3.539	3.121			
Fenthion	1.000	0.319		27.745		0.809	
Fenvalerate	1.000	0.182	20.773	26.136	0.318	0.273	0.455

**Table 16 (Cont.). Error values obtained using the ERA program with limited data sets (Method 4), calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).**

Chemical	5th % SPP (from ERA)	SPP Combination A	SPP Combination B	SPP Combination C	SPP Combination D	SPP Combination E	SPP Combination F
<b>Folpet</b>	1.000	2.819	3.598		3.898		
<b>Glyphosate</b>	1.000	1.380	2.570	2.356	1.515	1.542	1.653
<b>Heptachlor</b>	1.000						
<b>Hexachlorocyclohexane</b>	1.000						
<b>Malathion</b>	1.000	0.279	0.191	0.195	0.123	0.127	0.211
<b>Methiocarb</b>	1.000						
<b>Methomyl</b>	1.000	0.251	0.264	0.212	0.428	0.374	0.561
<b>Methoxychlor</b>	1.000						
<b>Methyl Parathion</b>	1.000	0.005	0.020	0.026	0.026	0.026	0.066
<b>Metolachlor</b>	1.000	1.045	1.045	1.351	1.026	1.293	1.248
<b>Mexacarbate</b>	1.000						
<b>Molinate</b>	1.000	2.521		11.962		3.252	
<b>Naled</b>	1.000			0.312			
<b>Parathion</b>	1.000						
<b>Pentachlorophenol</b>	1.000	2.770	1.712	3.065	2.531	3.958	3.466
<b>Permethrin</b>	1.000	0.368	20.158	21.789	0.579	0.605	0.868
<b>Phosmet</b>	1.000						
<b>Phosphamidon</b>	1.000						
<b>Piperonyl butoxide</b>	1.000		0.726	0.724			
<b>Thiobencarb/Benthiocarb</b>	1.000	0.316	0.356		0.433		
<b>Toxaphene</b>	1.000		3.927	3.983			
<b>Tributyltin oxide</b>	1.000		36.536				
<b>Trichlorfon</b>	1.000						
<b>Trifluralin</b>	1.000						

**Table 17. Summary statistics for error analysis for various predictive methods. Error values are calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).**

	RBT	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly	
<b><i>Method 1 – Simple Extrapolation Factors</i></b>											
<b>Mean</b>	55	46	19	21.3	45	130	51	360	14,000	7.3	
<b>Median</b>	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
<b>Minimum</b>	0.04	0.06	0.04	0.11	0.002	0.02	0.02	0.003	0.04	0.11	
<b>Maximum</b>	630	770	310	378	580	1400	420	6700	440,000	78	
<b>n</b>	51	51	36	25	42	41	27	27	31	29	
<b><i>Method 2 – Simple Extrapolation Factors Using Log-Transformed Data</i></b>											
<b>Mean</b>	31	32	10	15.7	8.7	9.9	50	41	7.1	4.2	
<b>Median</b>	2.0	1.8	2.5	2.8	0.8	1.1	2.2	2.0	1.7	1.4	
<b>Minimum</b>	0.0002	0.0001	0.002	0.10	0.00003	0.00002	0.0002	0.0004	0.006	0.001	
<b>Maximum</b>	980	1100	86	138	200	220	950	830	75	19	
<b>n</b>	51	51	34	25	42	41	27	27	31	29	
<b><i>Method 3 – Regression Analysis of Log-Transformed Values</i></b>											
<b>Mean</b>	12	13	12	6.1	9.0	11	20	48	12	2.8	
<b>Median</b>	0.9	0.7	0.8	0.7	1.0	0.9	0.9	1.1	0.8	1.0	
<b>Minimum</b>	0.005	0.005	0.04	0.06	0.001	0.001	0.005	0.001	0.006	0.02	
<b>Maximum</b>	142	184	152	70	62	100	162	1000	273	11	
<b>n</b>	51	51	36	25	42	41	27	27	31	29	
<b><i>Method 4 – ERA with Limited Data Sets</i></b>											
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>A = RBT, BLG, Daphnia, Mysid</b>				
<b>Mean</b>	0.9	4.9	5.2	0.9	1.0	0.9	<b>B = RBT, BLG, Daphnia, CCF</b>				
<b>Median</b>	0.4	0.9	0.9	0.5	0.6	0.6	<b>C = RBT, BLG, Daphnia, FHM</b>				
<b>Minimum</b>	0.01	0.02	0.03	0.03	0.03	0.07	<b>D = RBT, BLG, Daphnia, Mysid, CCF</b>				
<b>Maximum</b>	2.8	36	28	3.9	4.0	3.5	<b>E = RBT, BLG, Daphnia, Mysid, FHM</b>				
<b>n</b>	19	24	24	16	13	11	<b>F = RBT, BLG, Daphnia, Mysid, CCF, FHM</b>				

**Table 18. Ranges in percentile sensitivity rankings of commonly tested species exposed to 53 chemicals in the core data set, as calculated by the ERA program.**

	RBT	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
<b>Mean</b>	50	56	38	25	68	71	67	61	41	31
<b>Median</b>	50	53	32	18	75	75	73	64	30	25
<b>Minimum</b>	7.7	12	4.5	4.0	7.7	22	21	7.1	3.8	6.5
<b>Maximum</b>	91	93	92	92	96	94	95	94	94	93
<b>n</b>	51	51	36	25	42	41	27	27	31	29

**Table 19. Extrapolation factors for commonly tested species developed for cholinesterase inhibitors in the core data set.**

	RBT	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
<i>Method 1—Simple Extrapolation Factors</i>										
<b>Mean</b>	0.013	0.018	0.547	0.376	0.009	0.002	0.021	0.015	0.295	0.287
<b>Median</b>	0.001	0.003	0.277	0.228	0.000	0.000	0.001	0.002	0.093	0.056
<b>Std Dev</b>	0.027	0.031	0.650	0.553	0.025	0.005	0.052	0.027	0.442	0.390
<b>Minimum</b>	0.000	0.000	0.009	0.004	0.000	0.000	0.000	0.000	0.000	0.002
<b>Maximum</b>	0.115	0.112	2.214	2.269	0.099	0.019	0.202	0.079	1.727	1.225
<b>n</b>	24	25	18	15	20	20	15	11	17	19
<i>Method 2 -- Simple Extrapolation Factors Using Log-Transformed Data</i>										
<b>Mean</b>	-0.056	-0.058	2.432	1.223	0.037	-0.029	0.040	-0.131	-0.400	-0.284
<b>Median</b>	-0.042	-0.040	0.611	0.683	-0.013	-0.061	-0.032	-0.228	0.283	-0.089
<b>Std Dev</b>	0.439	0.489	11.972	3.097	0.307	0.305	0.385	0.437	2.717	1.078
<b>Minimum</b>	-0.962	-1.520	-14.174	-0.884	-0.474	-0.408	-0.431	-0.576	-10.418	-2.105
<b>Maximum</b>	0.694	0.626	46.637	12.131	0.632	0.591	0.753	0.703	2.119	1.131
<b>n</b>	24	25	17	15	20	20	15	11	17	19

**Table 20. Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) for cholinesterase inhibitors calculated using simple extrapolation factors (Method 1).**

(Extrapolation Factor)	5th % SPP (from ERA)	RB <sub>T</sub> (0.001)	BLG (0.003)	Daphnia (0.277)	Mysid (0.228)	CCF (0.0002)	FHM (0.0001)	SHM (0.001)	E. Oyster (0.002)	Scud (0.093)	Stonefly (0.056)
<b>Aminocarb</b>	33.974	26.699	13.308	88.498		1.996	1.247				
<b>Azinphos-methyl</b>	0.259	0.007	0.033	0.304		0.657	0.027			0.014	0.106
<b>Carbaryl</b>	1.844	2.374	26.996	1.549	1.408	3.154	2.142	1.844		2.407	0.268
<b>Chlorpyrifos</b>	0.101	0.015	0.016	0.114	0.010	0.056	0.040	0.208	0.101		0.559
<b>Coumaphos</b>	0.041	1.237	1.182			0.168			0.548		
<b>DEF</b>	3.686	1.527	2.156	1.881	1.536	0.307		0.339	0.119	9.257	117.390
<b>Demeton</b>	12.333	0.834	0.382			0.739	0.425			7.220	
<b>Diazinon</b>	0.149	0.264	0.761	0.265			1.144	0.116		0.019	1.398
<b>Dichlorvos</b>	0.074	0.139	3.021		4.328		1.702	5.667	168.391	37026.044	0.006
<b>Disulfoton</b>	4.006	3.274	0.136	3.595	22.777	0.938	0.631	0.771	1.361	3.468	0.280
<b>EPN</b>	2.336		0.382		2.961	0.084		0.108	0.246	0.629	0.414
<b>Ethion</b>	0.124		0.574	0.015		1.517	0.106		0.076	0.381	0.157
<b>Fenitrothion</b>	0.620	2.890	11.541	3.042		1.058	0.544				0.252
<b>Fenthion</b>	0.047	1.010	5.909	1.506	0.042		0.470	0.925	0.624	10.182	0.252
<b>Malathion</b>	0.559	0.160	0.193	0.277	0.501	1.790	1.269			0.070	0.559
<b>Methiocarb</b>	2.621	0.795	2.621	5.255							0.302
<b>Methomyl</b>	52.386	2.387	3.953	8.767	52.386	0.106	0.411	0.894			
<b>Methyl Parathion</b>	0.196	5.143	15.225	0.039	0.199	1.046	1.306	9.252		0.352	
<b>Mexacarbate</b>	10.372	15.761	38.933		424.194		2.275	2.494		3.703	0.559
<b>Molinate</b>	416.543	9.423	82.433	5365.214				3.961	9.252	10.017	416.543
<b>Naled</b>	0.154	0.256	2.086	0.083				0.484	0.925	0.359	0.447
<b>Parathion</b>	0.065	1.373	0.892		0.027	0.529	0.160			0.120	0.302
<b>Phosmet</b>	1.068	0.513	0.416		3.644	2.116				0.185	
<b>Phosphamidon</b>	0.698	10.841		3.512	27.104	13.972	14.672	57.055	149.303	0.791	8.385
<b>Thiobencarb/Benthiocarb</b>	132.813	1.598	8.621	27.932	60.038	0.455		0.507			
<b>Trichlorfon</b>	0.730	2.017	8.356			0.516	1.159	11.026			1.957

**Table 21. Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) for cholinesterase inhibitors calculated using log-transformed data (Method 2).**

(Extrapolation Factor)	5th % SPP (from ERA)	RBT (-0.042)	BLG (-0.040)	Daphnia (0.611)	Mysid (0.683)	CCF (-0.013)	FHM (-0.061)	SHM (-0.032)	E. Oyster (-0.228)	Scud (0.283)	Stonefly (-0.089)
<b>Aminocarb</b>	33.974	0.663	0.716	33.974		0.891	0.575				
<b>Azinphos-methyl</b>	0.259	0.934	0.913	1.060		0.903	0.726		0.584	0.945	
<b>Carbaryl</b>	1.844	0.733	0.696	2.866	3.472	0.886	0.556	0.779		2.517	0.870
<b>Chlorpyrifos</b>	0.101	0.905	0.941	0.582	0.119	0.932	0.709	0.836	0.403		0.816
<b>Coumaphos</b>	0.041	0.754	0.790			0.919			0.274		
<b>DEF</b>	3.686	0.747	0.771	3.227	3.686	0.912		0.823	0.388	3.686	0.508
<b>Demeton</b>	12.333	0.766	0.827			0.902	0.614			3.435	
<b>Diazinon</b>	0.149	0.804	0.804	0.975			0.578	0.852		0.634	0.752
<b>Dichlorvos</b>	0.074	0.825	0.761		7.481		0.564	0.752	0.074	38.631	1.226
<b>Disulfoton</b>	4.006	0.724	0.862	4.796	23.276	0.899	0.599	0.801	0.222	2.791	0.867
<b>EPN</b>	2.336		0.827		5.772	0.927		0.853	0.329	1.721	0.838
<b>Ethion</b>	0.124		0.813	0.172		0.894	0.669		0.431	1.493	0.913
<b>Fenitrothion</b>	0.620	0.727	0.721	4.330		0.898	0.605				0.875
<b>Fenthion</b>	0.047	0.760	0.740	2.817	0.313		0.610	0.797	0.266	3.787	0.875
<b>Malathion</b>	0.559	0.821	0.850	1.000	1.714	0.892	0.574			0.925	0.816
<b>Methiocarb</b>	2.621	0.768	0.765	6.047							0.861
<b>Methomyl</b>	52.386	0.733	0.752	8.269	41.127	0.924	0.615	0.797			
<b>Methyl Parathion</b>	0.196	0.710	0.713	0.301	0.912	0.898	0.573	0.740		1.460	
<b>Mexacarbate</b>	10.372	0.678	0.686			0.889	0.551			2.843	0.816
<b>Molinate</b>	416.543	0.692	0.665	417.544	171.768		0.536	0.740	0.141	10.836	0.597
<b>Naled</b>	0.154	0.805	0.772	0.479			0.609	0.797	0.302		0.832
<b>Parathion</b>	0.065	0.750	0.799		0.235	0.906	0.652			1.077	0.861
<b>Phosmet</b>	1.068	0.782	0.824		6.652	0.890				1.217	
<b>Phosphamidon</b>	0.698	0.688		4.728	26.214	0.869	0.495	0.698	0.076	1.836	0.642
<b>Thiobencarb/Benthiocarb</b>	132.813	0.746	0.729	16.790	45.143	0.907		0.812			
<b>Trichlorfon</b>	0.730	0.738	0.730			0.906	0.578	0.736			0.730

**Table 22. Values for equations used in Method 3 for prediction of 5<sup>th</sup> percentile LC50s from acute toxicity values for cholinesterase inhibitors with commonly tested species.**

Parameter	RBT	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
<b>Intercept</b>	-1851	-1.307	-0.431	-0.576	-0.118	-2.390	-0.023	-0.687	-0.269	-0.777
<b>Slope</b>	0.674 *	0.507 *	0.765 **	0.764 **	0.072	0.647	0.051	0.162	0.188	0.584 *
<b>r<sup>2</sup></b>	0.263	0.177	0.750	0.706	0.002	0.144	0.001	0.026	0.084	0.306
<b>n</b>	24	25	18	15	20	20	15	11	17	18

\*  $p \leq 0.05$

\*\*  $p \leq 0.01$

**Table 23. Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) for cholinesterase inhibitors calculated using regression analysis of log-transformed values (Method 3).**

Chemical	5th % SPP	RBT	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
<b>Aminocarb</b>	33.974	10.827	3.240	30.493		1.482	1.425				
<b>Azinphos-methyl</b>	0.259	0.043	0.154	0.398		1.368	0.120		0.377	0.243	
<b>Carbaryl</b>	1.844	2.121	4.638	1.383	1.068	1.532	2.022	1.416		0.994	
<b>Chlorpyrifos</b>	0.101	0.070	0.106	0.188	0.025	1.145	0.155	1.266	0.391		0.640
<b>Coumaphos</b>	0.041	1.367	0.948			1.240			0.514		
<b>DEF</b>	3.686	1.576	1.287	1.604	1.142	1.295		1.298	0.401	1.280	14.508
<b>Demeton</b>	12.333	1.048	0.535			1.380	0.710			1.222	
<b>Diazinon</b>	0.149	0.483	0.759	0.359			1.347	1.228		0.398	1.093
<b>Dichlorvos</b>	0.074	0.313	1.527		2.520		1.742	1.500	1.296	6.091	0.044
<b>Disulfoton</b>	4.006	2.634	0.316	2.633	8.966	1.404	0.916	1.354	0.595	1.065	0.427
<b>EPN</b>	2.336		0.535		1.886	1.179		1.223	0.451	0.772	0.537
<b>Ethion</b>	0.124		0.658	0.041		1.453	0.288		0.373	0.703	0.305
<b>Fenitrothion</b>	0.620	2.422	3.014	2.317		1.416	0.833				0.403
<b>Fenthion</b>	0.047	1.192	2.146	1.353	0.072		0.757	1.366	0.525	1.303	0.402
<b>Malathion</b>	0.559	0.344	0.378	0.371	0.485	1.471	1.441			0.512	0.640
<b>Methiocarb</b>	2.621	1.015	1.421	3.520							0.447
<b>Methomyl</b>	52.386	2.129	1.750	5.206	16.947	1.199	0.694	1.364			
<b>Methyl Parathion</b>	0.196	3.570	3.468	0.082	0.867	1.415	1.468	1.538		0.692	
<b>Mexacarbate</b>	10.372	7.591	5.585			1.497	2.231			1.078	0.640
<b>Molinate</b>	416.543	5.368	8.171	703.396	83.811		3.010	1.538	0.822	2.619	5.013
<b>Naled</b>	0.154	0.473	1.265	0.148			0.772	1.366	0.480		0.562
<b>Parathion</b>	0.065	1.467	0.822		0.053	1.347	0.377			0.566	0.447
<b>Phosmet</b>	1.068	0.755	0.558		2.210	1.489				0.614	
<b>Phosphamidon</b>	0.698	5.901		2.586	10.242	1.706	7.026	1.689	1.271	0.806	3.110
<b>Thiobencarb/Benthiocarb</b>	132.813	1.625	2.599	12.624	18.810	1.332		1.325			
<b>Trichlorfon</b>	0.730	1.900	2.559			1.345	1.359	1.552			1.330

**Table 24. Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) for cholinesterase inhibitors calculated using the ERA program with limited data sets (Method4)**

Chemical	5th % SPP (from ERA)	SPP Combination A	SPP Combination B	SPP Combination C	SPP Combination D	SPP Combination E	SPP Combination F
Aminocarb	33.974		146.020	148.449			
Azinphos-methyl	0.259		0.024	0.203			
Carbaryl	1.844	0.134	1.028	1.019	0.328	0.330	0.659
Chlorpyrifos	0.101	0.012	0.071	0.072	0.010	0.010	0.016
Coumaphos	0.041						
DEF	3.686	0.380	1.707		0.776		
Demeton	12.333						
Diazinon	0.149			0.142			
Dichlorvos	0.074						
Disulfoton	4.006	1.755	1.323	1.344	2.427	2.484	3.794
EPN	2.336						
Ethion	0.124						
Fenitrothion	0.620		2.194	1.935			
Fenthion	0.047	0.015		1.304		0.038	
Malathion	0.559	0.156	0.107	0.109	0.069	0.071	0.118
Methiocarb	2.621						
Methomyl	52.386	13.140	13.809	11.083	22.431	19.582	29.411
Methyl Parathion	0.196	0.001	0.004	0.005	0.005	0.005	0.013
Mexacarbate	10.372						
Molinate	416.543	1050.201		4982.670		1354.625	
Naled	0.154			0.048			
Parathion	0.065						
Phosmet	1.068						
Phosphamidon	0.698						
Thiobencarb/Benthiocarb	132.813	41.987	47.284		57.486		
Trichlorfon	0.730						

**Table 25. Error values for cholinesterase inhibitors using simple extrapolation factors (Method 1). Error values are calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).**

Chemical	5th % SPP	RBT	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
<b>Aminocarb</b>	1.000	0.790	0.394	2.619		0.059	0.037				
<b>Azinphos-methyl</b>	1.000	0.028	0.127	1.175		2.535	0.106			0.054	0.410
<b>Carbaryl</b>	1.000	1.288	14.640	0.840	0.763	1.710	1.162	1.000		1.305	0.146
<b>Chlorpyrifos</b>	1.000	0.149	0.156	1.129	0.100	0.553	0.400	2.061	1.000		5.535
<b>Coumaphos</b>	1.000	30.172	28.826			4.089			13.368		
<b>DEF</b>	1.000	0.414	0.585	0.510	0.417	0.083		0.092	0.032	2.511	31.848
<b>Demeton</b>	1.000	0.068	0.031			0.060	0.035			0.585	
<b>Diazinon</b>	1.000	1.770	5.110	1.782			7.681	0.776		0.124	9.379
<b>Dichlorvos</b>	1.000	1.878	40.821		58.480		23.000	76.581	2275.560	500351.952	0.076
<b>Disulfoton</b>	1.000	0.817	0.034	0.897	5.686	0.234	0.157	0.192	0.340	0.866	0.070
<b>EPN</b>	1.000		0.164		1.268	0.036		0.046	0.105	0.269	0.177
<b>Ethion</b>	1.000		4.632	0.125		12.233	0.852		0.610	3.071	1.262
<b>Fenitrothion</b>	1.000	4.662	18.615	4.907		1.707	0.878				0.407
<b>Fenthion</b>	1.000	21.485	125.732	32.035	0.884		9.990	19.685	13.284	216.642	5.352
<b>Malathion</b>	1.000	0.286	0.344	0.495	0.896	3.203	2.270			0.126	1.000
<b>Methiocarb</b>	1.000	0.303	1.000	2.005							0.115
<b>Methomyl</b>	1.000	0.046	0.075	0.167	1.000	0.002	0.008	0.017			
<b>Methyl Parathion</b>	1.000	26.238	77.681	0.198	1.016	5.336	6.662	47.205		1.795	
<b>Mexacarbate</b>	1.000	1.520	3.754			0.219	0.240			0.357	0.054
<b>Molinate</b>	1.000	0.023	0.198	12.880	1.018		0.010	0.022	0.024	1.000	0.046
<b>Naled</b>	1.000	1.661	13.543	0.539			3.144	6.008	2.332		2.904
<b>Parathion</b>	1.000	21.122	13.729		0.420	8.137	2.460			1.851	4.644
<b>Phosmet</b>	1.000	0.480	0.389		3.412	1.981				0.173	
<b>Phosphamidon</b>	1.000	15.532		5.032	38.831	20.017	21.020	81.741	213.902	1.133	12.013
<b>Thiobencarb/Benthiocarb</b>	1.000	0.012	0.065	0.210	0.452	0.003		0.004			
<b>Trichlorfon</b>	1.000	2.763	11.447			0.707	1.588	15.103			2.680

**Table 26. Error values for cholinesterase inhibitors using log-transformed data (Method 2). Error values are calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).**

Chemical	5th % SPP	RBT	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
Aminocarb	1.000	0.020	0.021	1.000		0.026	0.017				
Azinphos-methyl	1.000	3.605	3.526	4.093		3.487	2.804			2.256	3.648
Carbaryl	1.000	0.398	0.378	1.554	1.883	0.480	0.302	0.423		1.365	0.472
Chlorpyrifos	1.000	8.965	9.315	5.761	1.180	9.224	7.022	8.274	3.990		8.075
Coumaphos	1.000	18.378	19.270			22.412				6.679	
DEF	1.000	0.203	0.209	0.876	1.000	0.247		0.223	0.105	1.000	0.138
Demeton	1.000	0.062	0.067			0.073	0.050			0.279	
Diazinon	1.000	5.394	5.398	6.546			3.879	5.715		4.254	5.047
Dichlorvos	1.000	11.154	10.279		101.096		7.624	10.157	1.000	522.044	16.569
Disulfoton	1.000	0.181	0.215	1.197	5.810	0.224	0.150	0.200	0.056	0.697	0.216
EPN	1.000		0.354		2.471	0.397		0.365	0.141	0.737	0.359
Ethion	1.000		6.560	1.385		7.208	5.393		3.472	12.038	7.362
Fenitrothion	1.000	1.173	1.162	6.984		1.448	0.976				1.411
Fenthion	1.000	16.168	15.751	59.939	6.652		12.987	16.950	5.655	80.572	18.624
Malathion	1.000	1.468	1.521	1.789	3.066	1.596	1.028			1.655	1.459
Methiocarb	1.000	0.293	0.292	2.307							0.329
Methomyl	1.000	0.014	0.014	0.158	0.785	0.018	0.012	0.015			
Methyl Parathion	1.000	3.623	3.635	1.534	4.654	4.582	2.925	3.775		7.447	
Mexacarbate	1.000	0.065	0.066			0.086	0.053			0.274	0.079
Molinate	1.000	0.002	0.002	1.002	0.412		0.001	0.002	0.000	0.026	0.001
Naled	1.000	5.225	5.014	3.111			3.956	5.173	1.958		5.402
Parathion	1.000	11.542	12.294		3.612	13.934	10.030			16.572	13.251
Phosmet	1.000	0.732	0.772		6.229	0.833				1.139	
Phosphamidon	1.000	0.986		6.773	37.556	1.245	0.708	1.000	0.109	2.631	0.919
Thiobencarb/Benthiocarb	1.000	0.006	0.005	0.126	0.340	0.007		0.006			
Trichlorfon	1.000	1.011	1.000			1.241	0.791	1.008			1.000

**Table 27. Error values for cholinesterase inhibitors using regression analysis of log-transformed values (Method 3). Error values are calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).**

Chemical	5th % SPP	RB7	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
<b>Aminocarb</b>	1.000	0.319	0.095	0.898		0.044	0.042				
<b>Azinphos-methyl</b>	1.000	0.165	0.595	1.539		5.282	0.464			1.455	0.938
<b>Carbaryl</b>	1.000	1.150	2.515	0.750	0.579	0.831	1.097	0.768		0.539	
<b>Chlorpyrifos</b>	1.000	0.695	1.049	1.862	0.246	11.339	1.532	12.531	3.871		6.340
<b>Coumaphos</b>	1.000	33.344	23.132			30.242			12.532		
<b>DEF</b>	1.000	0.428	0.349	0.435	0.310	0.351		0.352	0.109	0.347	3.936
<b>Demeton</b>	1.000	0.085	0.043			0.112	0.058			0.099	
<b>Diazinon</b>	1.000	3.239	5.093	2.410			9.043	8.240		2.671	7.335
<b>Dichlorvos</b>	1.000	4.236	20.633		34.054		23.543	20.271	17.517	82.313	0.589
<b>Disulfoton</b>	1.000	0.657	0.079	0.657	2.238	0.350	0.229	0.338	0.149	0.266	0.107
<b>EPN</b>	1.000		0.229		0.807	0.505		0.524	0.193	0.331	0.230
<b>Ethion</b>	1.000		5.305	0.330		11.719	2.325		3.009	5.667	2.457
<b>Fenitrothion</b>	1.000	3.906	4.861	3.738		2.284	1.343				0.650
<b>Fenthion</b>	1.000	25.369	45.656	28.794	1.536		16.107	29.074	11.166	27.733	8.549
<b>Malathion</b>	1.000	0.616	0.676	0.663	0.868	2.631	2.577			0.915	1.145
<b>Methiocarb</b>	1.000	0.387	0.542	1.343							0.171
<b>Methomyl</b>	1.000	0.041	0.033	0.099	0.324	0.023	0.013	0.026			
<b>Methyl Parathion</b>	1.000	18.216	17.695	0.420	4.423	7.218	7.488	7.848		3.532	
<b>Mexacarbate</b>	1.000	0.732	0.538			0.144	0.215			0.104	0.062
<b>Molinate</b>	1.000	0.013	0.020	1.689	0.201		0.007	0.004	0.002	0.006	0.012
<b>Naled</b>	1.000	3.070	8.216	0.958			5.014	8.873	3.117		3.650
<b>Parathion</b>	1.000	22.562	12.653		0.808	20.720	5.799			8.705	6.875
<b>Phosmet</b>	1.000	0.707	0.523		2.069	1.394				0.575	
<b>Phosphamidon</b>	1.000	8.454		3.705	14.674	2.444	10.066	2.420	1.822	1.155	4.455
<b>Thiobencarb/Benthiocarb</b>	1.000	0.012	0.020	0.095	0.142	0.010		0.010			
<b>Trichlorfon</b>	1.000	2.603	3.505			1.842	1.861	2.126			1.822

**Table 28. Error values obtained using the ERA program for cholinesterase inhibitors with limited data sets (Method 4), calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).**

Chemical	5th % SPP (from ERA)	SPP Combination A	SPP Combination B	SPP Combination C	SPP Combination D	SPP Combination E	SPP Combination F
<b>Aminocarb</b>	1.000		4.321	4.393			
<b>Azinphos-methyl</b>	1.000		0.093	0.784			
<b>Carbaryl</b>	1.000	0.073	0.557	0.553	0.178	0.179	0.357
<b>Chlorpyrifos</b>	1.000	0.119	0.703	0.713	0.099	0.099	0.158
<b>Coumaphos</b>	1.000						
<b>DEF</b>	1.000	0.103	0.463		0.211		
<b>Demeton</b>	1.000						
<b>Diazinon</b>	1.000			0.953			
<b>Dichlorvos</b>	1.000						
<b>Disulfoton</b>	1.000	0.438	0.330	0.335	0.606	0.620	0.947
<b>EPN</b>	1.000						
<b>Ethion</b>	1.000						
<b>Fenitrothion</b>	1.000		3.539	3.121			
<b>Fenthion</b>	1.000	0.319		27.745		0.809	
<b>Malathion</b>	1.000	0.279	0.191	0.195	0.123	0.127	0.211
<b>Methiocarb</b>	1.000						
<b>Methomyl</b>	1.000	0.251	0.264	0.212	0.428	0.374	0.561
<b>Methyl Parathion</b>	1.000	0.005	0.020	0.026	0.026	0.026	0.066
<b>Mexacarbate</b>	1.000						
<b>Molinate</b>	1.000	2.521		11.962		3.252	
<b>Naled</b>	1.000			0.312			
<b>Parathion</b>	1.000						
<b>Phosmet</b>	1.000						
<b>Phosphamidon</b>	1.000						
<b>Thiobencarb/Benthiocarb</b>	1.000	0.316	0.356		0.433		
<b>Trichlorfon</b>	1.000						

**Table 29.** Summary statistics of error analysis for cholinesterase inhibitors using various predictive methods. Error values are calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).

	RBT	BLG	Daphnia	Mysid	CCF	FHM	SHM	E. Oyster	Scud	Stonefly
<i>Method 1 – Simple Extrapolation Factors</i>										
Mean	5.6	14	3.8	7.6	3.1	4.1	17	230	29000	4.1
Median	1.1	1.0	1.0	1.0	1.2	1.0	1.0	1.0	1.0	1.0
Minimum	0.01	0.03	0.1	0.1	0.002	0.01	0.004	0.02	0.05	0.05
Maximum	30	126	32	58	20	23	82	2300	500000	32
n	24	25	18	15	20	20	15	11	17	19
<i>Method 2 – Simple Extrapolation Factors Using Log-Transformed Data</i>										
Mean	3.8	3.9	5.9	12	3.4	3.0	3.6	2.1	39	4.4
Median	1.0	1.0	1.7	3.1	1.0	1.0	1.0	1.0	1.7	1.4
Minimum	0.002	0.002	0.1	0.3	0.01	0.001	0.002	0.0003	0.03	0.001
Maximum	18	19	60	100	22	13	17	6.7	520	19
n	24	25	18	15	20	20	15	11	17	19
<i>Method 3 – Regression Analysis of Log-Transformed Values</i>										
Mean	5.5	6.2	2.8	4.2	5.0	4.4	6.2	4.9	8.0	2.7
Median	0.7	0.7	0.9	1.5	1.6	1.7	2.1	3.0	0.9	1.5
Minimum	0.01	0.02	0.10	0.14	0.01	0.01	0.004	0.002	0.01	0.01
Maximum	33	46	29	34	30	24	29	18	82	8.5
n	24	25	18	15	20	20	15	11	17	18
<i>Method 4 – ERA with Limited Data Sets</i>										
	A	B	C	D	E	F				
Mean	0.4	1.0	3.9	0.3	0.7	0.4	A = RBT, BLG, Daphnia, Mysid			
Median	0.3	0.4	0.7	0.2	0.3	0.3	B = RBT, BLG, Daphnia, CCF			
Minimum	0.01	0.02	0.03	0.03	0.03	0.07	C = RBT, BLG, Daphnia, FHM			
Maximum	2.5	4.3	28	0.6	3.3	0.9	D = RBT, BLG, Daphnia, Mysid, CCF			
n	10	11	13	8	8	6	E = RBT, BLG, Daphnia, Mysid, FHM			
							F = RBT, BLG, Daphnia, Mysid, CCF, FHM			

**Table 30.** Extrapolation factors for commonly tested species developed from chemicals included in the tax-specific core data sets.

	RBT	BLG	CCF	FHM	Daphnia	Scud	Stonefly
<i>Method 1-- Simple Extrapolation Factors</i>							
Mean	0.541	0.388	0.334	0.269	0.058	0.068	0.133
Median	0.412	0.331	0.322	0.235	0.049	0.041	0.023
Std Dev	0.330	0.289	0.304	0.208	0.056	0.073	0.236
Minimum	0.056	0.031	0.000	0.002	0.003	0.014	0.003
Maximum	0.988	0.971	0.954	0.640	0.133	0.175	0.552
n	13	13	13	13	4	4	5
<i>Method 2 -- Simple Extrapolation Factors Using Log-Transformed Data</i>							
Mean	0.692	0.723	0.269	0.664	-0.761	1.024	-0.343
Median	0.896	0.792	0.734	0.740	-0.600	-0.837	-0.665
Std Dev	0.511	0.540	1.338	0.446	0.374	4.254	0.999
Minimum	-0.752	-0.553	-4.035	-0.237	-1.188	-1.581	-0.945
Maximum	1.218	1.856	0.995	1.541	-0.494	7.351	1.429
n	13	13	13	13	3	4	5

**Table 31. Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) calculated using simple extrapolation factors (Method 1) with taxa-specific core data sets.**

(Extrapolation Factor)	5th % SPP (from ERA)	RBT (0.412)	BLG (0.331)	CCF (0.322)	FHM (0.235)	Daphnia (0.049)	Scud (0.041)	Stonefly (0.023)
Antimycin A	0.007	0.007	0.023	1.102	0.009			
Azinphos-methyl	0.289	2.143	3.127	1059.664	43.751			
Carbaryl	1209.864	703.442	2568.576	5088.962	3425.126			
Clonitralide	49.127	53.688	41.363	26.411	23.929			
DDT	1.739	3.193	2.844	4.869	2.909			
Fenitrothion	1707.968	856.222	1098.112	1707.968	870.228			
Hexachlorocyclohexane	20.410	11.913	20.410	14.172	20.410			
Malathion	14.966	47.308	18.320	2889.113	2029.270			
Methoxychlor	9.423	10.366	15.749	16.748	9.149			
Methyl Parathion	3654.805	1523.529	1448.667	1687.732	2087.920			
Mexacarbate	10874.694	4669.119	3704.354	3671.783	3988.161			
Piperonyl butoxide	3115.785	1336.909	1483.391	2061.352	1454.506			
Toxaphene	2.050	2.654	1.927	1.505	4.022			
Carbaryl	0.356					0.273	1.063	0.109
DDT	0.159					0.229	0.131	0.159
Endrin	0.138					2.683	0.176	0.006
Malathion	0.133					0.049	0.031	0.227
Trichlorfon	0.094							0.795

**Table 32. Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) calculated using log-transformed data (Method 2) with taxa-specific core data sets.**

(Extrapolation Factor)	5th % SPP (from ERA)	RBT (0.896)	BLG (0.792)	CCF (0.734)	FHM (0.740)	Daphnia (-0.600)	Scud (-0.837)	Stonefly (-0.665)
Antimycin A	0.007	0.012	0.050	1.074	0.032			
Azinphos-methyl	0.289	1.980	2.468	166.394	16.397			
Carbaryl	1209.864	356.464	503.461	526.599	413.626			
Clonitralide	49.127	35.523	19.101	11.064	10.490			
DDT	1.739	2.831	2.290	3.197	2.204			
Fenitrothion	1707.968	425.131	256.756	236.238	150.008			
Hexachlorocyclohexane	20.410	9.214	10.914	7.005	9.325			
Malathion	14.966	31.715	10.018	347.505	280.748			
Methoxychlor	9.423	8.134	8.887	7.919	5.149			
Methyl Parathion	3654.805	712.589	319.792	234.180	286.733			
Mexacarbate	10874.694	1944.433	672.945	414.384	462.952			
Piperonyl butoxide	3115.785	633.832	325.852	271.216	219.410			
Toxaphene	2.050	2.398	1.681	1.350	2.802			
Carbaryl	0.356					2.179	0.950	4.366
DDT	0.159					2.421	5.491	3.397
Endrin	0.138					0.553	4.287	31.155
Malathion	0.133						18.299	2.680
Trichlorfon	0.094							1.165

**Table 33.** Values for equations used in Method 3 for prediction of 5<sup>th</sup> percentile LC50s from acute toxicity values for commonly tested species with taxa-specific core data sets.

Parameter	RBT	BLG	CCF	FHM	Daphnia	Scud	Stonefly
Intercept	-0.630	-0.907	-1.005	-0.884			
Slope	1.128 **	1.168 **	0.967 **	0.985 **	Insufficient	Insufficient	Insufficient
r <sup>2</sup>	0.971	0.971	0.533	0.779	Data	Data	Data
n	13	13	13	13			

\*\* p < 0.01

**Table 34.** Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) calculated using regression analysis of log-transformed values (Method 3) with taxa-specific core data sets.

Chemical	5th % SPP	RBT	BLG	CCF	FHM	Daphnia	Scud	Stonefly
Antimycin A	0.007	0.002	0.005	0.325	0.005			
Azinphos-methyl	0.289	1.507	1.707	248.485	22.568			
Carbaryl	1209.864	1035.619	4331.118	1132.661	1656.151			
Clonitralide	49.127	56.911	34.858	7.003	12.454			
DDT	1.739	2.361	1.529	1.366	1.562			
Fenitrothion	1707.968	1292.409	1605.462	394.185	429.438			
Hexachlorocyclohexane	20.410	10.421	15.276	3.836	10.646			
Malathion	14.966	49.351	13.465	655.239	989.008			
Methoxychlor	9.423	8.908	11.285	4.508	4.829			
Methyl Parathion	3654.805	2475.141	2218.707	389.673	1017.185			
Mexacarbate	10874.694	8749.838	6643.547	826.228	1924.421			
Piperonyl butoxide	3115.785	2135.994	2280.867	472.825	712.361			
Toxaphene	2.050	1.917	0.970	0.439	2.149			
Carbaryl	0.356					Insufficient	Insufficient	Insufficient
DDT	0.159					Data	Data	Data
Endrin	0.138							
Malathion	0.133							
Trichlorfon	0.094							

**Table 35. Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) calculated using the ERA program with limited taxa-specific data sets (Method 4).**

Chemical	5th % SPP (from ERA)	SPP Combination	SPP Combination	SPP Combination	SPP Combination
		A	B	C	D
Antimycin A	0.007	0.001	0.001	0.010	
Azinphos-methyl	0.289	0.353	0.045	0.519	
Carbaryl	1209.864	1043.322	735.332	752.380	
Clonitralide	49.127	73.610	66.090	91.989	
DDT	1.739	6.071	4.998	5.886	
Fenitrothion	1707.968	1712.850	1429.834	1638.843	
Hexachlorocyclohexane	20.410	22.485	21.603	19.045	
Malathion	14.966	4.878	1.820	1.876	
Methoxychlor	9.423	21.802	18.220	19.766	
Methyl Parathion	3654.805	2618.930	3213.246	2154.211	
Mexacarbate	10874.694	8019.489	11124.709	7946.799	
Piperonyl butoxide	3115.785	2746.257	2460.411	2506.245	
Toxaphene	2.050	2.422	4.137	2.693	
Carbaryl	0.356				1.382
DDT	0.159				2.334
Endrin	0.138				0.030
Malathion	0.133				0.120
Trichlorfon	0.094				

**Table 36.** Error values obtained using simple extrapolation factors (Method 1) with taxa-specific core data sets, calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).

Chemical	5th % SPP	RBT	BLG	CCF	FHM	Daphnia	Scud	Stonefly
Antimycin A	1.000	1.000	3.260	157.362	1.341			
Azinphos-methyl	1.000	7.416	10.818	3666.656	151.388			
Carbaryl	1.000	0.581	2.123	4.206	2.831			
Clonitralide	1.000	1.093	0.842	0.538	0.487			
DDT	1.000	1.836	1.636	2.800	1.673			
Fenitrothion	1.000	0.501	0.643	1.000	0.510			
Hexachlorocyclohexane	1.000	0.584	1.000	0.694	1.000			
Malathion	1.000	3.161	1.224	193.045	135.592			
Methoxychlor	1.000	1.100	1.671	1.777	0.971			
Methyl Parathion	1.000	0.417	0.396	0.462	0.571			
Mexacarbate	1.000	0.429	0.341	0.338	0.367			
Piperonyl butoxide	1.000	0.429	0.476	0.662	0.467			
Toxaphene	1.000	1.295	0.940	0.734	1.962			
						0.766	2.986	0.306
Carbaryl	1.000					1.440	0.823	1.000
DDT	1.000					19.439	1.274	0.041
Endrin	1.000					0.366	0.234	1.708
Malathion	1.000							8.457
Trichlorfon	1.000							

**Table 37.** Error values obtained using log-transformed data (Method 2) with taxa-specific core data sets, calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).

Chemical	5th % SPP	RBT	BLG	CCF	FHM	Daphnia	Scud	Stonefly
Antimycin A	1.000	1.673	7.145	153.369	4.507			
Azinphos-methyl	1.000	6.852	8.539	575.758	56.738			
Carbaryl	1.000	0.295	0.416	0.435	0.342			
Clonitralide	1.000	0.723	0.389	0.225	0.214			
DDT	1.000	1.628	1.317	1.838	1.268			
Fenitrothion	1.000	0.249	0.150	0.138	0.088			
Hexachlorocyclohexane	1.000	0.451	0.535	0.343	0.457			
Malathion	1.000	2.119	0.669	23.220	18.759			
Methoxychlor	1.000	0.863	0.943	0.840	0.546			
Methyl Parathion	1.000	0.195	0.087	0.064	0.078			
Mexacarbate	1.000	0.179	0.062	0.038	0.043			
Piperonyl butoxide	1.000	0.203	0.105	0.087	0.070			
Toxaphene	1.000	1.170	0.820	0.659	1.367			
Carbaryl	1.000					6.121	2.669	12.264
DDT	1.000					15.223	34.532	21.365
Endrin	1.000					4.011	31.066	225.761
Malathion	1.000						137.589	20.148
Trichlorfon	1.000							12.392

**Table 38.** Error values obtained using regression analysis of log-transformed values (Method 3) with taxon-specific core data sets, calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).

Chemical	5th % SPP	RBT	BLG	CCF	FHM	Daphnia	Scud	Stonefly
Antimycin A	1.000	0.339	0.779	46.377	0.784			
Azinphos-methyl	1.000	5.213	5.907	859.809	78.091			
Carbaryl	1.000	0.856	3.580	0.936	1.369			
Clonitralide	1.000	1.158	0.710	0.143	0.254			
DDT	1.000	1.358	0.879	0.785	0.898			
Fenitrothion	1.000	0.757	0.940	0.231	0.251			
Hexachlorocyclohexane	1.000	0.511	0.748	0.188	0.522			
Malathion	1.000	3.298	0.900	43.782	66.084			
Methoxychlor	1.000	0.945	1.198	0.478	0.513			
Methyl Parathion	1.000	0.677	0.607	0.107	0.278			
Mexacarbate	1.000	0.805	0.611	0.076	0.177			
Piperonyl butoxide	1.000	0.686	0.732	0.152	0.229			
Toxaphene	1.000	0.935	0.473	0.214	1.048			
Carbaryl	1.000							
DDT	1.000							
Endrin	1.000							
Malathion	1.000							
Trichlorfon	1.000							
						Insufficient Data	Insufficient Data	Insufficient Data

**Table 39. Error values obtained using the ERA program with limited taxa-specific data sets (Method 4), calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).**

Chemical	5th % SPP (from ERA)	SPP Combination A	SPP Combination B	SPP Combination C	SPP Combination D
Antimycin A	1.000	0.143	0.143	1.429	
Azinphos-methyl	1.000	1.221	0.156	1.796	
Carbaryl	1.000	0.862	0.608	0.622	
Clonitralide	1.000	1.498	1.345	1.872	
DDT	1.000	3.491	2.874	3.385	
Fenitrothion	1.000	1.003	0.837	0.960	
Hexachlorocyclohexane	1.000	1.102	1.058	0.933	
Malathion	1.000	0.326	0.122	0.125	
Methoxychlor	1.000	2.314	1.934	2.098	
Methyl Parathion	1.000	0.717	0.879	0.589	
Mexacarbate	1.000	0.737	1.023	0.731	
Piperonyl butoxide	1.000	0.881	0.790	0.804	
Toxaphene	1.000	1.181	2.018	1.314	
Carbaryl	1.000				3.882
DDT	1.000				14.679
Endrin	1.000				0.217
Malathion	1.000				0.902
Trichlorfon	1.000				

**Table 40. Summary statistics for error analysis for various predictive methods with taxa-specific core data sets. Error values are calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).**

	RBT	BLG	CCF	FHM	Daphnia	Scud	Stonefly
<i>Method 1-- Simple Extrapolation Factors</i>							
Mean	1.5	2.0	310	23	5.5	1.3	2.3
Median	1.0	1.0	1.0	1.0	1.1	1.0	1.0
Minimum	0.42	0.34	0.34	0.37	0.37	0.23	0.04
Maximum	7.4	11	3700	150	19	3.0	8.5
n	13	13	13	13	4	4	5
<i>Method 2 -- Simple Extrapolation Factors Using Log-Transformed Data</i>							
Mean	1.3	1.6	58	6.5	8.5	51	58
Median	0.7	0.5	0.4	0.5	6.1	33	20
Minimum	0.18	0.06	0.04	0.04	4.0	2.7	12
Maximum	6.9	8.5	580	57	15	140	230
n	13	13	13	13	3	4	5
<i>Method 3 – Regression Analysis of Log-Transformed Values</i>							
Mean	1.3	1.4	73	12	Insufficient	Insufficient	Insufficient
Median	0.9	0.8	0.2	0.5	Data	Data	Data
Minimum	0.34	0.47	0.08	0.18			
Maximum	5.2	5.9	860	78			
n	13	13	13	13			
<i>Method 4 -- ERA with Limited Data Sets</i>							
	A	B	C	D			
Mean	1.2	1.1	1.3	4.9	A = RBT, BLG, CCF, FHM		
Median	1.0	0.9	1.0	2.4	B = RBT, BLG, CCF		
Minimum	0.14	0.12	0.12	0.22	C = RBT, BLG, FHM		
Maximum	3.5	2.9	3.4	15	D = Daphnia, Scud, Stonefly		
n	13	13	13	4			

**Table 41.** Ranges in percentile sensitivity rankings of commonly tested species exposed to chemicals in the taxa-specific core data sets, as calculated by the ERA program.

	RBT	BLG	CCF	FHM	Daphnia	Scud	Stonefly
Mean	30.995	44.213	63.547	67.459	52.917	48.646	47.338
Median	25.000	50.000	78.571	68.750	52.084	53.125	63.333
Minimum	8.333	5.882	17.647	26.923	20.000	13.333	12.500
Maximum	84.375	76.923	84.615	91.667	87.500	75.000	72.222
n	13	13	13	13	4	4	5

**Table 42.** Extrapolation factors for commonly tested species developed for cholinesterase inhibitors in the taxa-specific core data sets.

	RBT	BLG	CCF	FHM
<i>Method 1-- Simple Extrapolation Factors</i>				
Mean	0.610	0.463	0.342	0.266
Median	0.765	0.392	0.199	0.247
Std Dev	0.414	0.379	0.401	0.273
Minimum	0.056	0.031	0.000	0.002
Maximum	0.988	0.971	0.954	0.640
n	6	6	6	6
<i>Method 2 -- Simple Extrapolation Factors Using Log-Transformed Data</i>				
Mean	0.623	0.635	0.617	0.594
Median	0.964	0.855	0.801	0.821
Std Dev	0.694	0.594	0.454	0.474
Minimum	-0.752	-0.553	-0.153	-0.237
Maximum	0.999	0.997	0.995	0.954
n	6	6	6	6

**Table 43.** Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) calculated for cholinesterase inhibitors using simple extrapolation factors (Method 1) with taxa-specific core data sets.

(Extrapolation Factor)	5th % SPP (from ERA)	RBT (0.765)	BLG (0.392)	CCF (0.199)	FHM (0.247)
Azinphos-methyl	0.289	3.981	3.709	655.795	46.019
Carbaryl	1209.864	1306.536	3046.684	3149.413	3602.693
Fenitrothion	1707.968	1590.300	1302.511	1057.013	915.342
Malathion	14.966	87.867	21.730	1787.989	2134.472
Methyl Parathion	3654.805	2829.721	1718.318	1044.489	2196.162
Mexacarbate	10874.694	8672.169	4393.872	2272.361	4194.917

**Table 44.** Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) calculated for cholinesterase inhibitors using log-transformed data (Method 2) with taxa-specific core data sets.

(Extrapolation Factor)	5th % SPP (from ERA)	RBT (0.964)	BLG (0.855)	CCF (0.801)	FHM (0.821)
Azinphos-methyl	0.289	4.904	6.829	656.863	73.226
Carbaryl	1209.864	1306.257	2123.262	2308.681	2628.831
Fenitrothion	1707.968	1578.733	1026.562	962.816	853.323
Malathion	14.966	96.828	30.977	1466.940	1710.306
Methyl Parathion	3654.805	2751.376	1301.032	953.667	1750.795
Mexacarbate	10874.694	8098.366	2904.035	1777.511	2978.795

**Table 45.** Values for equations used in Method 3 for prediction of 5<sup>th</sup> percentile LC50s from acute toxicity values for cholinesterase inhibitors using taxa-specific core data sets.

Parameter	RBT	BLG	CCF	FHM
Intercept	-1.603	-1.535	-11.804	-4.852
Slope	1.426 **	1.333 **	3.685	1.974 *
r <sup>2</sup>	0.995	0.957	0.282	0.680
n	6	6	6	6

\*  $p \leq 0.05$

\*\*  $p \leq 0.01$

**Table 46.** Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) calculated for cholinesterase inhibitors using regression analysis of log-transformed values (Method 3) with taxa-specific core data sets.

Chemical	5th % SPP	GBT	BLG	CCF	FHM
Azinphos-methyl	0.289	0.262	0.583	14.328	0.426
Carbaryl	1209.864	1014.378	4485.388	4647.292	2331.310
Fenitrothion	1707.968	1342.456	1444.442	83.196	155.955
Malathion	14.966	21.617	6.157	577.032	829.469
Methyl Parathion	3654.805	3052.812	2090.259	79.616	877.607
Mexacarbate	10874.694	15069.540	7309.708	1396.047	3147.748

**Table 47.** Estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) calculated for cholinesterase inhibitors using the ERA program with limited taxa-specific data sets (Method 4).

Chemical	5th % SPP (from ERA)	SPP Combination A	SPP Combination B	SPP Combination C
Azinphos-methyl	0.289	0.353	0.045	0.519
Carbaryl	1209.864	1043.322	735.332	752.380
Fenitrothion	1707.968	1712.850	1429.834	1638.843
Malathion	14.966	4.878	1.820	1.876
Methyl Parathion	3654.805	2618.930	3213.246	2154.211
Mexacarbate	10874.694	8019.489	11124.709	7946.799

**Table 48.** Error values obtained for cholinesterase inhibitors using simple extrapolation factors (Method 1) with taxa-specific core data sets, calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).

Chemical	5th % SPP	GBT	BLG	CCF	FHM
Azinphos-methyl	1.000	13.774	12.832	2269.188	159.236
Carbaryl	1.000	1.080	2.518	2.603	2.978
Fenitrothion	1.000	0.931	0.763	0.619	0.536
Malathion	1.000	5.871	1.452	119.470	142.621
Methyl Parathion	1.000	0.774	0.470	0.286	0.601
Mexacarbate	1.000	0.797	0.404	0.209	0.386

**Table 49.** Error values obtained for cholinesterase inhibitors using log-transformed data (Method 2) with taxa-specific core data sets, calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).

Chemical	5th % SPP	GBT	BLG	CCF	FHM
Azinphos-methyl	1.000	16.970	23.628	2272.882	253.379
Carbaryl	1.000	1.080	1.755	1.908	2.173
Fenitrothion	1.000	0.924	0.601	0.564	0.500
Malathion	1.000	6.470	2.070	98.018	114.279
Methyl Parathion	1.000	0.753	0.356	0.261	0.479
Mexacarbate	1.000	0.745	0.267	0.163	0.274

**Table 50.** Error values obtained for cholinesterase inhibitors using regression analysis of log-transformed values (Method 3) with taxa-specific core data sets, calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).

Chemical	5th % SPP	GBT	BLG	CCF	FHM
Azinphos-methyl	1.000	0.908	2.017	49.580	1.475
Carbaryl	1.000	0.838	3.707	3.841	1.927
Fenitrothion	1.000	0.786	0.846	0.049	0.091
Malathion	1.000	1.444	0.411	38.556	55.424
Methyl Parathion	1.000	0.835	0.572	0.022	0.240
Mexacarbate	1.000	1.386	0.672	0.128	0.289

**Table 51.** Error values obtained for cholinesterase inhibitors using the ERA program with limited taxa-specific data sets (Method 4), calculated as species estimate of 5<sup>th</sup> percentile LC50 value divided by ERA estimate of 5<sup>th</sup> percentile LC50 value (i.e. 1.0 represents perfect correspondence).

Chemical	5th % SPP (from ERA)	SPP Combination	SPP Combination	SPP Combination
		A	B	C
Azinphos-methyl	1.000	1.221	0.156	1.796
Carbaryl	1.000	0.862	0.608	0.622
Fenitrothion	1.000	1.003	0.837	0.960
Malathion	1.000	0.326	0.122	0.125
Methyl Parathion	1.000	0.717	0.879	0.589
Mexacarbate	1.000	0.737	1.023	0.731

**Table 52.** Summary statistics for error analysis for cholinesterase inhibitors using various predictive methods with taxa-specific core data sets. Error values are calculated as species estimate of 5<sup>th</sup>percentile LC50 value divided by ERA estimate of 5<sup>th</sup>percentile LC50 value (i.e. 1.0 represents perfect correspondence).

RBT	BLG	CCF	FHM
3.9	3.1	400	51
1.0	1.1	1.6	1.8
0.78	0.40	0.21	0.39
14	13	2300	160
6	6	6	6
4.5	4.8	400	62
1.0	1.2	1.2	1.3
0.74	0.27	0.16	0.27
17	24	2300	250
6	6	6	6
1.0	1.4	15	9.9
0.9	0.8	2.0	0.9
0.79	0.41	0.02	0.09
1.4	3.7	50	55
6	6	6	6
A	B	C	
0.8	0.6	0.8	
0.8	0.7	0.7	A = RBT, BLG, CCF, FHM
0.33	0.12	0.12	B = RBT, BLG, CCF
1.2	1.0	1.8	C = RBT, BLG, FHM
6	6	6	

**Table 53. Comparison of estimates of 5<sup>th</sup> percentile LC50 values ( $\mu\text{g/L}$ ) calculated using the ERA program with the combined core data set (all species) vs. estimates calculated using tax-specific core data sets (freshwater fish and freshwater invertebrates).**

<b>Chemical</b>	<b>5th % LC50 (all species)</b>	<b>5th % LC50 (freshwater fish)</b>	<b>5th % LC50 (freshwater invertebrates)</b>
Antimycin A	<b>0.005</b>	<b>0.007</b>	
Azinphos-methyl	<b>0.259</b>	<b>0.289</b>	
Carbaryl	<b>1.844</b>	<b>1209.864</b>	
Clonitralide	<b>42.561</b>	<b>49.127</b>	
DDT	<b>0.272</b>	<b>1.739</b>	
Fenitrothion	<b>0.620</b>	<b>1707.968</b>	
Hexachlorocyclohexane	<b>1.212</b>	<b>20.410</b>	
Malathion	<b>0.559</b>	<b>14.966</b>	
Methoxychlor	<b>0.937</b>	<b>9.423</b>	
Methyl Parathion	<b>0.196</b>	<b>3654.805</b>	
Mexacarbate	<b>10.372</b>	<b>10874.694</b>	
Piperonyl butoxide	<b>414.040</b>	<b>3115.785</b>	
Toxaphene	<b>0.924</b>	<b>2.050</b>	
Carbaryl	<b>1.844</b>		<b>0.356</b>
DDT	<b>0.272</b>		<b>0.159</b>
Endrin	<b>0.070</b>		<b>0.138</b>
Malathion	<b>0.559</b>		<b>0.133</b>
Trichlorfon	<b>0.730</b>		<b>0.094</b>

**Table 54. Ratios of estimates of 5<sup>th</sup> percentile LC50 values (error values) calculated using the ERA program with the combined core data set (all species) vs. estimates calculated using taxon-specific core data sets (freshwater fish and freshwater invertebrates).**

Chemical	Error (all species)	Error (freshwater fish)	Error (freshwater invertebrates)
Antimycin A	1.000	1.4	
Azinphos-methyl	1.000	1.1	
Carbaryl	1.000	660	
Clonitralide	1.000	1.2	
DDT	1.000	6.4	
Fenitrothion	1.000	2800	
Hexachlorocyclohexane	1.000	17	
Malathion	1.000	27	
Methoxychlor	1.000	10	
Methyl Parathion	1.000	19000	
Mexacarbate	1.000	1000	
Piperonyl butoxide	1.000	7.5	
Toxaphene	1.000	2.2	
Carbaryl	1.000		0.19
DDT	1.000		0.58
Endrin	1.000		2.0
Malathion	1.000		0.24
Trichlorfon	1.000		0.13
Mean	1.000	1800	0.62
Median	1.000	10	0.24
Min	1.000	1.1	0.13
Max	1.000	19000	2.0
n	18	13	5



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## **Appendix I**

### **Final Acute Toxicity Database**



**Appendix 1**  
**Final Acute Toxicity Database**

Data Source <sup>1</sup>	CAS Number	Chemical Name	Species Latin Name	Species Common Name	Duration	Endpoint	Value (ug/L)	Water	Exposure Type
OPP	71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	Daphnia magna	Water flea	48 hr	EC50	11200.000000	Freshwater	Static
OPP	71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	58000.000000	Freshwater	Static
OPP	71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	52000.000000	Freshwater	Static
ECOTOX	79-34-5	1,1,2,2-Tetrachloroethane	Pimephales promelas	Fathead minnow	96 hr	LC50	20300.000000	Freshwater	Flow Through
ECOTOX	75-35-4	1,1-Dichloroethene	Menidia beryllina	Inland silverside	96 hr	LC50	250000.000000	Saltwater	Static
ECOTOX	120-82-1	1,2,4-Trichlorobenzene	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1530.000000	Freshwater	Flow Through
OPP	643-79-8	1,2-Benzenedicarboxaldehyde	Daphnia magna	Water flea	48 hr	EC50	87.000000	Freshwater	Static Renewal
OPP	643-79-8	1,2-Benzenedicarboxaldehyde	Daphnia magna	Water flea	48 hr	EC50	90.000000	Freshwater	Static
OPP	643-79-8	1,2-Benzenedicarboxaldehyde	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	72.000000	Freshwater	Flow Through
CERC-GED	84-74-2	1,2-Benzenedicarboxylic acid, Dibutyl ester (Phthalate Dibutyl)	Chironomus plumosus	Midge	48 hr	EC50	4000.000000	Freshwater	Static
CERC-GED	84-74-2	1,2-Benzenedicarboxylic acid, Dibutyl ester (Phthalate Dibutyl)	Ictalurus punctatus	Channel catfish	96 hr	LC50	2910.000000	Freshwater	Static
CERC-GED	84-74-2	1,2-Benzenedicarboxylic acid, Dibutyl ester (Phthalate Dibutyl)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	730.000000	Freshwater	Static
CERC-GED	84-74-2	1,2-Benzenedicarboxylic acid, Dibutyl ester (Phthalate Dibutyl)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2560.000000	Freshwater	Static
CERC-GED	84-74-2	1,2-Benzenedicarboxylic acid, Dibutyl ester (Phthalate Dibutyl)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6470.000000	Freshwater	Static
CERC-GED	84-74-2	1,2-Benzenedicarboxylic acid, Dibutyl ester (Phthalate Dibutyl)	Pimephales promelas	Fathead minnow	96 hr	LC50	1300.000000	Freshwater	Static
ECOTOX	131-11-3	1,2-Benzenedicarboxylic acid, Dimethyl ester	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	50000.000000	Freshwater	Static
ECOTOX	95-50-1	1,2-Dichlorobenzene	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	27000.000000	Freshwater	Static
ECOTOX	95-50-1	1,2-Dichlorobenzene	Menidia beryllina	Inland silverside	96 hr	LC50	7300.000000	Saltwater	Static
ECOTOX	95-50-1	1,2-Dichlorobenzene	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1580.000000	Freshwater	Flow Through
ECOTOX	95-50-1	1,2-Dichlorobenzene	Tanytarsus dissimilis	Midge	48 hr	LC50	12000.000000	Freshwater	Static
OPP	107-06-2	1,2-Dichloroethane	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	225000.000000	Freshwater	Static
ECOTOX	78-87-5	1,2-Dichloropropane	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	320000.000000	Freshwater	Static
ECOTOX	78-87-5	1,2-Dichloropropane	Menidia beryllina	Inland silverside	96 hr	LC50	240000.000000	Saltwater	Static
ECOTOX	142-28-9	1,3-Dichloropropane	Pimephales promelas	Fathead minnow	96 hr	LC50	131000.000000	Freshwater	Flow Through
CERC-GED	542-75-6	1,3-Dichloropropene	Daphnia magna	Water flea	48 hr	EC50	90.000000	Freshwater	Static
OPP	542-75-6	1,3-Dichloropropene	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6700.000000	Freshwater	Static
OPP	542-75-6	1,3-Dichloropropene	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	7090.000000	Freshwater	Static
OPP	542-75-6	1,3-Dichloropropene	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3940.000000	Freshwater	Static
CERC-GED	542-75-6	1,3-Dichloropropene	Pimephales promelas	Fathead minnow	96 hr	LC50	4100.000000	Freshwater	Static
OPP	106-46-7	1,4-Dichlorobenzene (Paradichlorobenzene)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6400.000000	Freshwater	Static
OPP	106-46-7	1,4-Dichlorobenzene (Paradichlorobenzene)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	880.000000	Freshwater	Static
ECOTOX	106-46-7	1,4-Dichlorobenzene (Paradichlorobenzene)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1120.000000	Freshwater	Flow Through
OPP	106-46-7	1,4-Dichlorobenzene (Paradichlorobenzene)	Salvelinus fontinalis	Brook trout	96 hr	LC50	1670.000000	Freshwater	Static
ECOTOX	106-46-7	1,4-Dichlorobenzene (Paradichlorobenzene)	Tanytarsus dissimilis	Midge	48 hr	LC50	13000.000000	Freshwater	Static
OPP	134375-28-5	2-(Hydroxymethyl)aminoethanol	Daphnia magna	Water flea	48 hr	EC50	25200.000000	Freshwater	Flow Through
CERC-GED	25167-83-3	2,3,4,6-Tetrachlorophenol	Daphnia magna	Water flea	48 hr	EC50	500.000000	Freshwater	Static
CERC-GED	25167-83-3	2,3,4,6-Tetrachlorophenol	Ictalurus punctatus	Channel catfish	96 hr	LC50	140.000000	Freshwater	Static
CERC-GED	25167-83-3	2,3,4,6-Tetrachlorophenol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	100.000000	Freshwater	Static
CERC-GED	25167-83-3	2,3,4,6-Tetrachlorophenol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	85.000000	Freshwater	Static
CERC-GED	25167-83-3	2,3,4,6-Tetrachlorophenol	Pimephales promelas	Fathead minnow	96 hr	LC50	170.000000	Freshwater	Static
CERC-GED	50-31-7	2,3,6-Trichlorobenzoic acid	Pimephales promelas	Fathead minnow	96 hr	LC50	8500.000000	Freshwater	Static
OPP	94-75-7	2,4-D Acid	Crassostrea virginica	Eastern oyster	96 hr	EC50	58700.000000	Saltwater	Flow Through
OPP	94-75-7	2,4-D Acid	Crassostrea virginica	Eastern oyster	96 hr	EC50	146000.000000	Saltwater	Flow Through
OPP	94-75-7	2,4-D Acid	Daphnia magna	Water flea	48 hr	EC50	25000.000000	Freshwater	Static
CERC-GED	94-75-7	2,4-D Acid	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	180000.000000	Freshwater	Static
OPP	94-75-7	2,4-D Acid	Menidia beryllina	Inland silverside	96 hr	LC50	175000.000000	Saltwater	Flow Through
CERC-GED	94-75-7	2,4-D Acid	Oncorhynchus clarkii	Cutthroat trout	96 hr	LC50	44000.000000	Freshwater	Static
CERC-GED	94-75-7	2,4-D Acid	Oncorhynchus clarkii	Cutthroat trout	96 hr	LC50	64000.000000	Freshwater	Static
CERC-GED	94-75-7	2,4-D Acid	Oncorhynchus clarkii	Cutthroat trout	96 hr	LC50	130000.000000	Freshwater	Static
CERC-GED	94-75-7	2,4-D Acid	Oncorhynchus clarkii	Cutthroat trout	96 hr	LC50	169000.000000	Freshwater	Static
CERC-GED	94-75-7	2,4-D Acid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	110000.000000	Freshwater	Static
OPP	94-75-7	2,4-D Acid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	358000.000000	Freshwater	Static
CERC-GED	94-75-7	2,4-D Acid	Pimephales promelas	Fathead minnow	96 hr	LC50	133000.000000	Freshwater	Static
CERC-GED	94-75-7	2,4-D Acid	Salvelinus namaycush	Lake trout	96 hr	LC50	44500.000000	Freshwater	Static
CERC-GED	94-75-7	2,4-D Acid	Salvelinus namaycush	Lake trout	96 hr	LC50	105000.000000	Freshwater	Static
CERC-GED	1929-73-3	2,4-D Butoxyethanol ester	Chironomus plumosus	Midge	48 hr	EC50	790.000000	Freshwater	Static
CERC-GED	1929-73-3	2,4-D Butoxyethanol ester	Daphnia magna	Water flea	48 hr	EC50	6400.000000	Freshwater	Static
OPP	1929-73-3	2,4-D Butoxyethanol ester	Daphnia magna	Water flea	48 hr	EC50	7200.000000	Freshwater	Static
CERC-GED	1929-73-3	2,4-D Butoxyethanol ester	Gammarus fasciatus	Scud	96 hr	LC50	440.000000	Freshwater	Static
CERC-GED	1929-73-3	2,4-D Butoxyethanol ester	Ictalurus punctatus	Channel catfish	96 hr	LC50	780.000000	Freshwater	Static
OPP	1929-73-3	2,4-D Butoxyethanol ester	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	620.000000	Freshwater	Static

<sup>1</sup> OPP = Office of Pesticide Programs Database

ECOTOX = EVISTRA Component of U.S. EPA AQUIRE/ECOTOX Database

CERC-GED = Combined Columbia Environmental Research Center and GED Database

**Appendix 1**  
**Final Acute Toxicity Database**

CERC-GED	1929-73-3	2,4-D Butoxyethanol ester	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	760.000000	Freshwater	Static
OPP	1929-73-3	2,4-D Butoxyethanol ester	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2090.000000	Freshwater	Static
CERC-GED	1929-73-3	2,4-D Butoxyethanol ester	Penaeus aztecus	Brown shrimp	48 hr	EC50	5600.000000	Saltwater	Static
OPP	1929-73-3	2,4-D Butoxyethanol ester	Pimephales promelas	Fathead minnow	96 hr	LC50	2500.000000	Freshwater	Static
CERC-GED	1929-73-3	2,4-D Butoxyethanol ester	Pimephales promelas	Fathead minnow	96 hr	LC50	3250.000000	Freshwater	Static
OPP	94-80-4	2,4-D Butyl ester	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	300.000000	Freshwater	Static
CERC-GED	94-80-4	2,4-D Butyl ester	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	540.000000	Freshwater	Static
OPP	94-80-4	2,4-D Butyl ester	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	550.000000	Freshwater	Flow Through
CERC-GED	94-80-4	2,4-D Butyl ester	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	670.000000	Freshwater	Static
CERC-GED	94-80-4	2,4-D Butyl ester	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	740.000000	Freshwater	Static
CERC-GED	94-80-4	2,4-D Butyl ester	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	770.000000	Freshwater	Static
CERC-GED	94-80-4	2,4-D Butyl ester	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	860.000000	Freshwater	Static
OPP	94-80-4	2,4-D Butyl ester	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	400.000000	Freshwater	Static
OPP	94-80-4	2,4-D Butyl ester	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	800.000000	Freshwater	Static
CERC-GED	94-80-4	2,4-D Butyl ester	Pteronarcella badia	Stonefly	96 hr	LC50	1480.000000	Freshwater	Static
CERC-GED	94-80-4	2,4-D Butyl ester	Salvelinus namaycush	Lake trout	96 hr	LC50	640.000000	Freshwater	Static
CERC-GED	94-80-4	2,4-D Butyl ester	Salvelinus namaycush	Lake trout	96 hr	LC50	720.000000	Freshwater	Static
CERC-GED	94-80-4	2,4-D Butyl ester	Salvelinus namaycush	Lake trout	96 hr	LC50	840.000000	Freshwater	Static
CERC-GED	94-80-4	2,4-D Butyl ester	Salvelinus namaycush	Lake trout	96 hr	LC50	880.000000	Freshwater	Static
CERC-GED	2008-39-1	2,4-D Dimethylamine Salt	Ictalurus punctatus	Channel catfish	96 hr	EC50	119000.000000	Freshwater	Static
CERC-GED	2008-39-1	2,4-D Dimethylamine Salt	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	168000.000000	Freshwater	Static
CERC-GED	2008-39-1	2,4-D Dimethylamine Salt	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	177000.000000	Freshwater	Static
CERC-GED	2008-39-1	2,4-D Dimethylamine Salt	Pimephales promelas	Fathead minnow	96 hr	LC50	335000.000000	Freshwater	Static
CERC-GED	2008-39-1	2,4-D Dimethylamine Salt	Pimephales promelas	Fathead minnow	96 hr	LC50	630000.000000	Freshwater	Static
CERC-GED	2008-39-1	2,4-D Dimethylamine Salt	Pimephales promelas	Fathead minnow	96 hr	LC50	740000.000000	Freshwater	Static
CERC-GED	2008-39-1	2,4-D Dimethylamine Salt	Pimephales promelas	Fathead minnow	96 hr	LC50	760000.000000	Freshwater	Static
CERC-GED	Unknown	2,4-D Dodecy/Tetradodecyl Amine Salt	Ictalurus punctatus	Channel catfish	96 hr	LC50	7000.000000	Freshwater	Static
CERC-GED	Unknown	2,4-D Dodecy/Tetradodecyl Amine Salt	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	7400.000000	Freshwater	Static
CERC-GED	Unknown	2,4-D Dodecy/Tetradodecyl Amine Salt	Micropterus dolomieu	Smallmouth bass	96 hr	LC50	1050.000000	Freshwater	Static
CERC-GED	Unknown	2,4-D Dodecy/Tetradodecyl Amine Salt	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3050.000000	Freshwater	Static
CERC-GED	Unknown	2,4-D Dodecy/Tetradodecyl Amine Salt	Oncorhynchus tshawytscha	Chinook salmon	96 hr	LC50	4800.000000	Freshwater	Static
CERC-GED	Unknown	2,4-D Dodecy/Tetradodecyl Amine Salt	Pimephales promelas	Fathead minnow	96 hr	LC50	2350.000000	Freshwater	Static
CERC-GED	Unknown	2,4-D Dodecy/Tetradodecyl Amine Salt	Pimephales promelas	Fathead minnow	96 hr	LC50	2360.000000	Freshwater	Static
CERC-GED	Unknown	2,4-D Dodecy/Tetradodecyl Amine Salt	Pimephales promelas	Fathead minnow	96 hr	LC50	2700.000000	Freshwater	Static
CERC-GED	Unknown	2,4-D Dodecy/Tetradodecyl Amine Salt	Pimephales promelas	Fathead minnow	96 hr	LC50	3900.000000	Freshwater	Static
CERC-GED	Unknown	2,4-D Dodecy/Tetradodecyl Amine Salt	Pimephales promelas	Fathead minnow	96 hr	LC50	4000.000000	Freshwater	Static
OPP	25168-26-7	2,4-D Isooctyl Ester	Daphnia magna	Water flea	48 hr	EC50	18,800000	Freshwater	Static
OPP	25168-26-7	2,4-D Isooctyl Ester	Daphnia magna	Water flea	48 hr	EC50	54,000000	Freshwater	Static
CERC-GED	25168-26-7	2,4-D Isooctyl Ester	Gammarus fasciatus	Scud	96 hr	LC50	2400.000000	Freshwater	Static
OPP	25168-26-7	2,4-D Isooctyl Ester	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	18000.000000	Freshwater	Static
OPP	25168-26-7	2,4-D Isooctyl Ester	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	19500.000000	Freshwater	Static
OPP	25168-26-7	2,4-D Isooctyl Ester	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	22000.000000	Freshwater	Static
OPP	94-11-1	2,4-D Isopropyl Ester	Daphnia magna	Water flea	48 hr	EC50	2600.000000	Freshwater	Flow Through
OPP	94-11-1	2,4-D Isopropyl Ester	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	310,000000	Freshwater	Flow Through
OPP	94-11-1	2,4-D Isopropyl Ester	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	690,000000	Freshwater	Flow Through
CERC-GED	4834-49-5	2,4-D Oleylpropylenediamine salt	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	760,000000	Freshwater	Static
OPP	1320-18-9	2,4-D Propylene glycol butyl ether ester	Callinectes sapidus	Blue crab	48 hr	LC50	2800,000000	Saltwater	Static
CERC-GED	1320-18-9	2,4-D Propylene glycol butyl ether ester	Cypridopsis vidua	Ostracod	48 hr	EC50	420,000000	Freshwater	Static
CERC-GED	1320-18-9	2,4-D Propylene glycol butyl ether ester	Gammaurus fasciatus	Scud	96 hr	LC50	1600,000000	Freshwater	Static
CERC-GED	1320-18-9	2,4-D Propylene glycol butyl ether ester	Gammaurus fasciatus	Scud	96 hr	LC50	2850,000000	Freshwater	Static
CERC-GED	1320-18-9	2,4-D Propylene glycol butyl ether ester	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	560,000000	Freshwater	Static
OPP	1320-18-9	2,4-D Propylene glycol butyl ether ester	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	330,000000	Freshwater	Flow Through
CERC-GED	1320-18-9	2,4-D Propylene glycol butyl ether ester	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	490,000000	Freshwater	Static
CERC-GED	1320-18-9	2,4-D Propylene glycol butyl ether ester	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	610,000000	Freshwater	Static
CERC-GED	1320-18-9	2,4-D Propylene glycol butyl ether ester	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	1030,000000	Freshwater	Static
CERC-GED	1320-18-9	2,4-D Propylene glycol butyl ether ester	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	1220,000000	Freshwater	Static
CERC-GED	1320-18-9	2,4-D Propylene glycol butyl ether ester	Pteronarcelia badia	Stonefly	96 hr	LC50	2430,000000	Freshwater	Static
CERC-GED	1320-18-9	2,4-D Propylene glycol butyl ether ester	Pteronarcys californica	Stonefly	96 hr	LC50	1800,000000	Freshwater	Static
CERC-GED	1320-18-9	2,4-D Propylene glycol butyl ether ester	Salvelinus namaycush	Lake trout	96 hr	LC50	630,000000	Freshwater	Static
CERC-GED	1320-18-9	2,4-D Propylene glycol butyl ether ester	Salvelinus namaycush	Lake trout	96 hr	LC50	1050,000000	Freshwater	Static
CERC-GED	1320-18-9	2,4-D Propylene glycol butyl ether ester	Salvelinus namaycush	Lake trout	96 hr	LC50	1070,000000	Freshwater	Static
CERC-GED	1320-18-9	2,4-D Propylene glycol butyl ether ester	Salvelinus namaycush	Lake trout	96 hr	LC50	1125,000000	Freshwater	Static
CERC-GED	1320-18-9	2,4-D Propylene glycol butyl ether ester	Simoccephalus serrulatus	Water flea	48 hr	EC50	4900,000000	Freshwater	Static

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**Appendix 1**  
**Final Acute Toxicity Database**

OPP	94-82-6	2,4-DB Acid	Daphnia magna	Water flea	48 hr	EC50	25000.000000	Freshwater	Flow Through
CERC-GED	94-82-6	2,4-DB Acid	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	7480.000000	Freshwater	Static
OPP	94-82-6	2,4-DB Acid	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	16800.000000	Freshwater	Static
CERC-GED	94-82-6	2,4-DB Acid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1970.000000	Freshwater	Static
OPP	94-82-6	2,4-DB Acid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	14300.000000	Freshwater	Static
CERC-GED	94-82-6	2,4-DB Acid	Pimephales promelas	Fathead minnow	96 hr	LC50	18000.000000	Freshwater	Static
CERC-GED	94-82-6	2,4-DB Acid	Pteronarcys californica	Stonefly	96 hr	LC50	15000.000000	Freshwater	Static
CERC-GED	51-28-5	2,4-Dinitrophenol	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	17700.000000	Saltwater	Static
CERC-GED	51-28-5	2,4-Dinitrophenol	Gammarus pseudolimnaeus	Scud	96 hr	LC50	3600.000000	Freshwater	Static
CERC-GED	51-28-5	2,4-Dinitrophenol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	18000.000000	Freshwater	Static
CERC-GED	51-28-5	2,4-Dinitrophenol	Palaeomonetes pugio	Grass shrimp	96 hr	LC50	26300.000000	Saltwater	Static
OPP	79270-78-3	2,4-DP, 2-EH Ester	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	7700.000000	Freshwater	Static
OPP	79270-78-3	2,4-DP, 2-EH Ester	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	7900.000000	Freshwater	Static
OPP	120-36-5	2,4-DP, Dichlorprop	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	500.000000	Freshwater	Static
OPP	120-32-1	2-Benzyl-4-chlorophenol	Daphnia magna	Water flea	48 hr	EC50	590.000000	Freshwater	Static
OPP	120-32-1	2-Benzyl-4-chlorophenol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	330.000000	Freshwater	Static
OPP	120-32-1	2-Benzyl-4-chlorophenol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	720.000000	Freshwater	Static
CERC-GED	104-76-7	2-Ethylhexanol	Chironomus plumosus	Midge	48 hr	EC50	34000.000000	Freshwater	Static
OPP	3547-33-9	2-Hydroxyethyl octyl sulfide	Daphnia magna	Water flea	48 hr	EC50	370.000000	Freshwater	Flow Through
OPP	3547-33-9	2-Hydroxyethyl octyl sulfide	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2800.000000	Freshwater	Flow Through
OPP	3547-33-9	2-Hydroxyethyl octyl sulfide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2900.000000	Freshwater	Flow Through
OPP	7745-89-3	3-Chloro-p-toluidine hydrochloride	Daphnia magna	Water flea	48 hr	EC50	70.000000	Freshwater	Static
OPP	7745-89-3	3-Chloro-p-toluidine hydrochloride	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	9700.000000	Freshwater	Static
OPP	55406-53-6	3-Iodo-2-propynyl butylcarbamate	Americamysis bahia	Mysid	96 hr	LC50	89.800000	Saltwater	Flow Through
OPP	55406-53-6	3-Iodo-2-propynyl butylcarbamate	Crassostrea virginica	Eastern oyster	96 hr	EC50	23.400000	Saltwater	Flow Through
OPP	55406-53-6	3-Iodo-2-propynyl butylcarbamate	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	418.000000	Saltwater	Flow Through
OPP	55406-53-6	3-Iodo-2-propynyl butylcarbamate	Daphnia magna	Water flea	48 hr	EC50	160.000000	Freshwater	Flow Through
OPP	55406-53-6	3-Iodo-2-propynyl butylcarbamate	Daphnia magna	Water flea	48 hr	EC50	956.000000	Freshwater	Static
OPP	55406-53-6	3-Iodo-2-propynyl butylcarbamate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	226.000000	Freshwater	Flow Through
OPP	55406-53-6	3-Iodo-2-propynyl butylcarbamate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	67.000000	Freshwater	Flow Through
OPP	55406-53-6	3-Iodo-2-propynyl butylcarbamate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	72.000000	Freshwater	Flow Through
OPP	55406-53-6	3-Iodo-2-propynyl butylcarbamate	Pimephales promelas	Fathead minnow	96 hr	LC50	200.000000	Freshwater	Flow Through
OPP	52315-07-8	3-phenoxy benzoic acid (cypermethrin degradation product)	Daphnia magna	Water flea	48 hr	EC50	89000.000000	Freshwater	Static
OPP	51200-87-4	4,4-Dimethyloxazolidine	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	95200.000000	Freshwater	Static
OPP	504-24-5	4-Aminopyridine	Ictalurus punctatus	Channel catfish	96 hr	LC50	4000.000000	Freshwater	Static
OPP	504-24-5	4-Aminopyridine	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2820.000000	Freshwater	Static
OPP	88-04-0	4-Chloro-3,5-xlenol	Daphnia magna	Water flea	48 hr	EC50	7700.000000	Freshwater	Static
OPP	88-04-0	4-Chloro-3,5-xlenol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2700.000000	Freshwater	Static
OPP	88-04-0	4-Chloro-3,5-xlenol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	360.000000	Freshwater	Static
OPP	88-04-0	4-Chloro-3,5-xlenol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	760.000000	Freshwater	Static
CERC-GED	100-02-7	4-Nitrophenol	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	26700.000000	Saltwater	Flow Through
OPP	100-02-7	4-Nitrophenol	Cyprinodus incongruens	Ostracod	48 hr	LC50	26000.000000	Freshwater	Static
OPP	100-02-7	4-Nitrophenol	Daphnia magna	Water flea	48 hr	EC50	6000.000000	Freshwater	Static
OPP	100-02-7	4-Nitrophenol	Daphnia magna	Water flea	48 hr	EC50	36000.000000	Freshwater	Static
CERC-GED	100-02-7	4-Nitrophenol	Gammaerus pseudolimnaeus	Scud	96 hr	LC50	6600.000000	Freshwater	Flow Through
OPP	100-02-7	4-Nitrophenol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6600.000000	Freshwater	Flow Through
OPP	100-02-7	4-Nitrophenol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4500.000000	Freshwater	Static
CERC-GED	100-02-7	4-Nitrophenol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6900.000000	Freshwater	Flow Through
OPP	100-02-7	4-Nitrophenol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	13000.000000	Freshwater	Static
CERC-GED	100-02-7	4-Nitrophenol	Palaeomonetes pugio	Grass shrimp	96 hr	LC50	14000.000000	Saltwater	Flow Through
CERC-GED	4684-94-0	6-Chloro-2-picolinic acid	Ictalurus punctatus	Channel catfish	96 hr	LC50	8800.000000	Freshwater	Static
CERC-GED	4684-94-0	6-Chloro-2-picolinic acid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	82000.000000	Freshwater	Static
CERC-GED	30560-19-1	Acephate	Isogenus sp.	Stonefly	96 hr	LC50	11700.000000	Freshwater	Static
CERC-GED	30560-19-1	Acephate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	110000.000000	Freshwater	Static
CERC-GED	30560-19-1	Acephate	Pteronarcella badia	Stonefly	96 hr	LC50	9500.000000	Freshwater	Static
OPP	26532-25-2	Acetaldehyde	Daphnia magna	Water flea	48 hr	EC50	4700.000000	Freshwater	Static
OPP	26532-25-2	Acetaldehyde	Daphnia magna	Water flea	48 hr	EC50	7000.000000	Freshwater	Static
OPP	26532-25-2	Acetaldehyde	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2100.000000	Freshwater	Static
OPP	26532-25-2	Acetaldehyde	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2200.000000	Freshwater	Static
OPP	34256-82-1	Acetochlor	Americamysis bahia	Mysid	96 hr	LC50	2200.000000	Saltwater	Flow Through
OPP	34256-82-1	Acetochlor	Crassostrea virginica	Eastern oyster	96 hr	EC50	3820.000000	Saltwater	Flow Through
OPP	34256-82-1	Acetochlor	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	2100.000000	Saltwater	Flow Through
OPP	34256-82-1	Acetochlor	Daphnia magna	Water flea	48 hr	EC50	14000.000000	Freshwater	Static

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OPP	34256-82-1	Acetochlor	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	420.000000	Freshwater	Static
OPP	34256-82-1	Acetochlor	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1200.000000	Freshwater	Static
CERC-GED	67-64-1	Acetone	Americanysis bahia	Mysid	96 hr	LC50	4100000.000000	Saltwater	Static
CERC-GED	67-64-1	Acetone	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	45000000.000000	Saltwater	Static
CERC-GED	67-64-1	Acetone	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	5.540000	Freshwater	Static
OPP	107-02-8	Acrolein (2-Propenal)	Americanysis bahia	Mysid	96 hr	LC50	500.000000	Saltwater	Flow Through
OPP	107-02-8	Acrolein (2-Propenal)	Crassostrea virginica	Eastern oyster	96 hr	EC50	55.000000	Saltwater	Flow Through
OPP	107-02-8	Acrolein (2-Propenal)	Crassostrea virginica	Eastern oyster	96 hr	EC50	106.000000	Saltwater	Flow Through
OPP	107-02-8	Acrolein (2-Propenal)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	22.000000	Freshwater	Static
OPP	107-02-8	Acrolein (2-Propenal)	Penaeus aztecus	Brown shrimp	48 hr	LC50	100.000000	Saltwater	Flow Through
CERC-GED	1757-18-2	Akton	Ictalurus punctatus	Channel catfish	96 hr	LC50	400.000000	Freshwater	Static
CERC-GED	1757-18-2	Akton	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	170.000000	Freshwater	Static
CERC-GED	15972-60-8	Alachlor	Chironomus plumosus	Midge	48 hr	EC50	3200.000000	Freshwater	Static
CERC-GED	15972-60-8	Alachlor	Daphnia magna	Water flea	48 hr	EC50	21000.000000	Freshwater	Static
OPP	15972-60-8	Alachlor	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2800.000000	Freshwater	Static
CERC-GED	15972-60-8	Alachlor	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4300.000000	Freshwater	Static
OPP	15972-60-8	Alachlor	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	5600.000000	Freshwater	Static
OPP	15972-60-8	Alachlor	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1000.000000	Freshwater	Static
OPP	15972-60-8	Alachlor	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1800.000000	Freshwater	Static
CERC-GED	15972-60-8	Alachlor	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2400.000000	Freshwater	Static
CERC-GED	116-06-3	Aldicarb	Americanysis bahia	Mysid	96 hr	LC50	13.000000	Saltwater	Static
CERC-GED	116-06-3	Aldicarb	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	170.000000	Saltwater	Static
OPP	116-06-3	Aldicarb	Daphnia magna	Water flea	48 hr	EC50	410.700000	Freshwater	Static
CERC-GED	116-06-3	Aldicarb	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	560.000000	Freshwater	Static
OPP	116-06-3	Aldicarb	Penaeus styloirostris	White shrimp	96 hr	LC50	72.000000	Saltwater	Static
OPP	116-06-3	Aldicarb	Pimephales promelas	Fathead minnow	96 hr	LC50	1370.000000	Freshwater	Flow Through
OPP	1646-88-4	Aldoxycarb	Daphnia magna	Water flea	48 hr	EC50	280.000000	Freshwater	Static
OPP	1646-88-4	Aldoxycarb	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	53000.000000	Freshwater	Static
CERC-GED	309-00-2	Aldrin	Cypridopsis vidua	Ostracod	48 hr	EC50	18.000000	Freshwater	Static
CERC-GED	309-00-2	Aldrin	Daphnia pulex	Water flea	48 hr	EC50	28.000000	Freshwater	Static
CERC-GED	309-00-2	Aldrin	Gammarus fasciatus	Scud	96 hr	LC50	4300.000000	Freshwater	Static
CERC-GED	309-00-2	Aldrin	Gammarus fasciatus	Scud	96 hr	LC50	5600.000000	Freshwater	Static
CERC-GED	309-00-2	Aldrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6.200000	Freshwater	Static
CERC-GED	309-00-2	Aldrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	12.000000	Freshwater	Static
CERC-GED	309-00-2	Aldrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2.600000	Freshwater	Static
CERC-GED	309-00-2	Aldrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	8.200000	Freshwater	Static
CERC-GED	309-00-2	Aldrin	Palaeomonetes kadiakensis	Grass shrimp	96 hr	LC50	50.000000	Freshwater	Static
CERC-GED	309-00-2	Aldrin	Pimephales promelas	Fathead minnow	96 hr	LC50	8.200000	Freshwater	Static
CERC-GED	309-00-2	Aldrin	Pteronarcys californica	Stonefly	96 hr	LC50	1.300000	Freshwater	Static
CERC-GED	309-00-2	Aldrin	Simocephalus serrulatus	Water flea	48 hr	EC50	23.000000	Freshwater	Static
CERC-GED	309-00-2	Aldrin	Simocephalus serrulatus	Water flea	48 hr	EC50	32.000000	Freshwater	Static
OPP	91745-52-7	Alkyl Amine Hydrochloride	Daphnia magna	Water flea	48 hr	EC50	27.000000	Freshwater	Flow Through
OPP	91745-52-7	Alkyl Amine Hydrochloride	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	480.000000	Freshwater	Flow Through
OPP	91745-52-7	Alkyl Amine Hydrochloride	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	180.000000	Freshwater	Flow Through
CERC-GED	584-79-2	Allethrin (D-Trans Allethrin)	Daphnia pulex	Water flea	48 hr	EC50	21.000000	Freshwater	Static
CERC-GED	584-79-2	Allethrin (D-Trans Allethrin)	Gammarus fasciatus	Scud	96 hr	LC50	11.000000	Freshwater	Static
CERC-GED	584-79-2	Allethrin (D-Trans Allethrin)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	35.000000	Freshwater	Static
CERC-GED	584-79-2	Allethrin (D-Trans Allethrin)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	47.000000	Freshwater	Static
CERC-GED	584-79-2	Allethrin (D-Trans Allethrin)	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	22.200000	Freshwater	Static
CERC-GED	584-79-2	Allethrin (D-Trans Allethrin)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	13.900000	Freshwater	Static
CERC-GED	584-79-2	Allethrin (D-Trans Allethrin)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	19.000000	Freshwater	Static
CERC-GED	584-79-2	Allethrin (D-Trans Allethrin)	Pteronarcys californica	Stonefly	96 hr	LC50	5.600000	Freshwater	Static
ICERC-GED	584-79-2	Allethrin (D-Trans Allethrin)	Salvelinus namaycush	Lake trout	96 hr	LC50	17.300000	Freshwater	Static
CERC-GED	584-79-2	Allethrin (D-Trans Allethrin)	Simocephalus serrulatus	Water flea	48 hr	EC50	56.000000	Freshwater	Static
ECOTOX	7446-70-0	Aluminum chloride	Ceriodaphnia sp.	Water flea	48 hr	LC50	36900.000000	Freshwater	Not Reported
ECOTOX	7446-70-0	Aluminum chloride	Daphnia magna	Water flea	48 hr	EC50	3900.000000	Freshwater	Static
ECOTOX	7446-70-0	Aluminum chloride	Physa integra	Pouch snail	96 hr	LC50	55500.000000	Freshwater	Not Reported
CERC-GED	13473-90-0	Aluminum nitrate	Pimephales promelas	Fathead minnow	96 hr	LC50	4250.000000	Freshwater	Static
CERC-GED	10043-01-3	Aluminum sulfate	Pimephales promelas	Fathead minnow	96 hr	LC50	4400.000000	Freshwater	Static
CERC-GED	67485-29-4	Amdro (Pyrimidinone)	Chironomus plumosus	Midge	48 hr	EC50	140.000000	Freshwater	Static
CERC-GED	67485-29-4	Amdro (Pyrimidinone)	Daphnia magna	Water flea	48 hr	EC50	130.000000	Freshwater	Static
OPP	67485-29-4	Amdro (Pyrimidinone)	Daphnia magna	Water flea	48 hr	EC50	1140.000000	Freshwater	Static
CERC-GED	67485-29-4	Amdro (Pyrimidinone)	Ictalurus punctatus	Channel catfish	96 hr	LC50	70.000000	Freshwater	Static

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**Appendix 1**  
**Final Acute Toxicity Database**

OPP	67485-29-4	Amdro (Pyrimidinone)	Ictalurus punctatus	Channel catfish	96 hr	LC50	90.000000	Freshwater	Static
CERC-GED	67485-29-4	Amdro (Pyrimidinone)	Lagodon rhomboides	Pinfish	96 hr	LC50	200.000000	Saltwater	Static
CERC-GED	67485-29-4	Amdro (Pyrimidinone)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	120.000000	Freshwater	Static
OPP	67485-29-4	Amdro (Pyrimidinone)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1700.000000	Freshwater	Static
CERC-GED	67485-29-4	Amdro (Pyrimidinone)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	76.000000	Freshwater	Static
OPP	67485-29-4	Amdro (Pyrimidinone)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	150.000000	Freshwater	Static
OPP	67485-29-4	Amdro (Pyrimidinone)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	160.000000	Freshwater	Static
CERC-GED	67485-29-4	Amdro (Pyrimidinone)	Pimephales promelas	Fathead minnow	96 hr	LC50	75.000000	Freshwater	Static
OPP	834-12-8	Ametryn	Americamysis bahia	Mysid	96 hr	LC50	2300.000000	Saltwater	Static
OPP	834-12-8	Ametryn	Carassius auratus	Goldfish	96 hr	LC50	14000.000000	Freshwater	Static
OPP	834-12-8	Ametryn	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	5800.000000	Saltwater	Static
OPP	834-12-8	Ametryn	Daphnia magna	Water flea	48 hr	EC50	28000.000000	Freshwater	Static
OPP	834-12-8	Ametryn	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4100.000000	Freshwater	Static
OPP	834-12-8	Ametryn	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	8500.000000	Freshwater	Static
CERC-GED	834-12-8	Ametryn	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3200.000000	Freshwater	Static
OPP	834-12-8	Ametryn	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3600.000000	Freshwater	Static
OPP	834-12-8	Ametryn	Pimephales promelas	Fathead minnow	96 hr	LC50	16000.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Chironomus plumosus	Midge	48 hr	EC50	13500.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Daphnia magna	Water flea	48 hr	EC50	320.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Gammarus pseudolimnaeus	Scud	96 hr	LC50	145.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Ictalurus punctatus	Channel catfish	96 hr	LC50	10000.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3100.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3300.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3500.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6000.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	22000.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	28000.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	13500.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	21000.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	25000.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Perca flavescens	Yellow perch	96 hr	LC50	5800.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Perca flavescens	Yellow perch	96 hr	LC50	6400.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Perca flavescens	Yellow perch	96 hr	LC50	7000.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Pimephales promelas	Fathead minnow	96 hr	LC50	8500.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Pteronarcella badia	Stonefly	96 hr	LC50	19.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Salmo salar	Atlantic salmon	96 hr	LC50	2350.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Salmo salar	Atlantic salmon	96 hr	LC50	7600.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Salmo trutta	Brown trout	96 hr	LC50	15000.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Salmo trutta	Brown trout	96 hr	LC50	17000.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Salvelinus fontinalis	Brook trout	96 hr	LC50	10500.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Salvelinus fontinalis	Brook trout	96 hr	LC50	12100.000000	Freshwater	Static
CERC-GED	2032-59-9	Aminocarb	Skwala sp.	Stonefly	96 hr	LC50	41.000000	Freshwater	Static
OPP	33089-61-1	Amitraz	Daphnia magna	Water flea	48 hr	EC50	35.000000	Freshwater	Static
OPP	33089-61-1	Amitraz	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	340.000000	Freshwater	Flow Through
OPP	33089-61-1	Amitraz	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1340.000000	Freshwater	Static
OPP	33089-61-1	Amitraz	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	740.000000	Freshwater	Static
OPP	33089-61-1	Amitraz	Palaeomonetes vulgaris	Shore shrimp	96 hr	LC50	65100.000000	Saltwater	Static
OPP	33089-61-1	Amitraz (Degrad)	Americamysis bahia	Mysid	96 hr	LC50	25200.000000	Saltwater	Static
OPP	33089-61-1	Amitraz (Degrad)	Crassostrea virginica	Eastern oyster	96 hr	EC50	13100.000000	Saltwater	Flow Through
OPP	33089-61-1	Amitraz (Degrad)	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	11500.000000	Saltwater	Flow Through
OPP	33089-61-1	Amitraz (Degrad)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	29300.000000	Freshwater	Static
OPP	33089-61-1	Amitraz (Degrad)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	28400.000000	Freshwater	Static
OPP	61-82-5	Amitrole	Americamysis bahia	Mysid	96 hr	LC50	2800.000000	Saltwater	Static
OPP	61-82-5	Amitrole	Daphnia magna	Water flea	48 hr	EC50	18000.000000	Freshwater	Static
ECOTOX	12125-02-9	Ammonium chloride	Micropterus dolomieu	Smallmouth bass	96 hr	LC50	820.000000	Freshwater	Flow Through
ECOTOX	12125-02-9	Ammonium chloride	Micropterus dolomieu	Smallmouth bass	96 hr	LC50	990.000000	Freshwater	Flow Through
OPP	68424-85-1	Ammonium chloride - ADBAC	Daphnia magna	Water flea	48 hr	EC50	5.800000	Freshwater	Static Renewal
OPP	68424-85-1	Ammonium chloride - ADBAC	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	515.000000	Freshwater	Static Renewal
OPP	68424-85-1	Ammonium chloride - ADBAC	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	923.200000	Freshwater	Static Renewal
OPP	999-81-5	Ammonium chloride - Chloroethyl trimethyl	Daphnia magna	Water flea	48 hr	EC50	16700.000000	Freshwater	Static
OPP	7173-51-5	Ammonium chloride - DDAC	Daphnia magna	Water flea	48 hr	EC50	18.000000	Freshwater	Static
OPP	7173-51-5	Ammonium chloride - DDAC	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	600.000000	Freshwater	Static
OPP	7173-51-5	Ammonium chloride - DDAC	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2800.000000	Freshwater	Static

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OPP	101-05-3	Anilazine	<i>Crassostrea virginica</i>	Eastern oyster	96 hr	EC50	25.000000	Saltwater	Flow Through
OPP	101-05-3	Anilazine	<i>Daphnia magna</i>	Water flea	48 hr	EC50	949.000000	Freshwater	Static
OPP	101-05-3	Anilazine	<i>Daphnia magna</i>	Water flea	48 hr	EC50	1100.000000	Freshwater	Static
CERC-GED	101-05-3	Anilazine	<i>Gammarus fasciatus</i>	Scud	96 hr	LC50	270.000000	Freshwater	Static
CERC-GED	101-05-3	Anilazine	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	240.000000	Freshwater	Static
CERC-GED	101-05-3	Anilazine	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	320.000000	Freshwater	Static
CERC-GED	101-05-3	Anilazine	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	140.000000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Ameiurus melas</i>	Black bullhead	96 hr	LC50	4.800000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Ameiurus melas</i>	Black bullhead	96 hr	LC50	7.500000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Carassius auratus</i>	Goldfish	96 hr	LC50	0.180000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Carassius auratus</i>	Goldfish	96 hr	LC50	0.190000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Carassius auratus</i>	Goldfish	96 hr	LC50	0.200000	Freshwater	Static
OPP	1397-94-0	Antimycin A	<i>Crassostrea virginica</i>	Eastern oyster	96 hr	EC50	62.000000	Saltwater	Flow Through
CERC-GED	1397-94-0	Antimycin A	<i>Gambusia affinis</i>	Mosquitofish	96 hr	LC50	0.192000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	3.420000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Lepomis cyanellus</i>	Green sunfish	96 hr	LC50	0.220000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.034000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.037000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.038000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.045000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.050000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.062000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.080000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.082000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.089000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.094000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.103000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.135000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.159000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Micropterus salmoides</i>	Largemouth bass	96 hr	LC50	0.237000	Freshwater	Static
OPP	1397-94-0	Antimycin A	<i>Oncorhynchus kisutch</i>	Coho salmon	96 hr	LC50	0.009000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Oncorhynchus kisutch</i>	Coho salmon	96 hr	LC50	0.018000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Oncorhynchus kisutch</i>	Coho salmon	96 hr	LC50	0.021000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	0.009000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	0.010000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	0.011000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	0.012000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	0.014000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	0.022000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	0.026000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	0.092000	Freshwater	Static
OPP	1397-94-0	Antimycin A	<i>Penaeus duorarum</i>	Pink shrimp	48 hr	LC50	24.000000	Saltwater	Flow Through
CERC-GED	1397-94-0	Antimycin A	<i>Perca flavescens</i>	Yellow perch	96 hr	LC50	0.040000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	0.025000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	0.032000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	0.040000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	0.080000	Freshwater	Static
CERC-GED	1397-94-0	Antimycin A	<i>Pomoxis annularis</i>	White crappie	96 hr	LC50	0.340000	Freshwater	Static
CERC-GED	Unknown	Aqua Cop	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	24000.000000	Freshwater	Static
CERC-GED	Unknown	Aqua Cop	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	29000.000000	Freshwater	Static
CERC-GED	Unknown	Aqua Cop	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	24000.000000	Freshwater	Static
CERC-GED	Unknown	Aqua-Valor	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	43000.000000	Freshwater	Static
CERC-GED	Unknown	Aqua-Valor	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	92000.000000	Freshwater	Static
CERC-GED	Unknown	Aqua-Valor	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	18000.000000	Freshwater	Static
CERC-GED	140-57-8	Aramite	<i>Gamma fasciatus</i>	Scud	96 hr	LC50	60.000000	Freshwater	Static
CERC-GED	140-57-8	Aramite	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	320.000000	Freshwater	Static
ECOTOX	1327-53-3	Arsenic oxide (As203)	<i>Aplexa hypnorum</i>	Snail	96 hr	LC50	9280.000000	Freshwater	Static
ECOTOX	1327-53-3	Arsenic oxide (As203)	<i>Tanytarsus dissimilis</i>	Midge	48 hr	LC50	36700.000000	Freshwater	Static
ECOTOX	7784-46-5	Arsenite - Sodium	<i>Daphnia magna</i>	Water flea	96 hr	EC50	4340.000000	Freshwater	Static
CERC-GED	7784-46-5	Arsenite - Sodium	<i>Daphnia pulex</i>	Water flea	48 hr	EC50	3000.000000	Freshwater	Static
ECOTOX	7784-46-5	Arsenite - Sodium	<i>Gammarus pseudolimnaeus</i>	Scud	96 hr	LC50	875.000000	Freshwater	Flow Through
ECOTOX	7784-46-5	Arsenite - Sodium	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	15300.000000	Freshwater	Static
CERC-GED	7784-46-5	Arsenite - Sodium	<i>Pteronarcys californica</i>	Stonefly	96 hr	LC50	38000.000000	Freshwater	Static

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CERC-GED	7784-46-5	Arsenite - Sodium	<i>Simocephalus serrulatus</i>	Water flea	48 hr	EC50	1400.000000	Freshwater	Static
OPP	3244-90-4	Aspon	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	76.000000	Freshwater	Static
OPP	3244-90-4	Aspon	<i>Penaeus aztecus</i>	Brown shrimp	48 hr	LC50	2.700000	Saltwater	Flow Through
OPP	3337-71-1	Asulam	<i>Daphnia magna</i>	Water flea	48 hr	EC50	27000.000000	Freshwater	Static
OPP	3337-71-1	Asulam	<i>Daphnia magna</i>	Water flea	48 hr	EC50	29500.000000	Freshwater	Static
OPP	1912-24-9	Atrazine	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	5400.000000	Saltwater	Flow Through
OPP	1912-24-9	Atrazine	<i>Carassius auratus</i>	Goldfish	96 hr	LC50	60000.000000	Freshwater	Static
OPP	1912-24-9	Atrazine	<i>Chironomus tentans</i>	Midge	48 hr	LC50	720.000000	Freshwater	Static
OPP	1912-24-9	Atrazine	<i>Daphnia magna</i>	Water flea	48 hr	EC50	6900.000000	Freshwater	Static
OPP	1912-24-9	Atrazine	<i>Daphnia magna</i>	Water flea	48 hr	EC50	115000.000000	Freshwater	Static
OPP	1912-24-9	Atrazine	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	24000.000000	Freshwater	Static
OPP	1912-24-9	Atrazine	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	54510.000000	Freshwater	Static
OPP	1912-24-9	Atrazine	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	4500.000000	Freshwater	Static
OPP	1912-24-9	Atrazine	<i>Penaeus aztecus</i>	Brown shrimp	48 hr	LC50	1000.000000	Saltwater	Flow Through
OPP	1912-24-9	Atrazine	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	15000.000000	Freshwater	Static
OPP	65195-55-3	Avermectin	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	0.210000	Saltwater	Static
OPP	65195-55-3	Avermectin	<i>Cyprinodon variegatus</i>	Sheepshead minnow	96 hr	LC50	15.000000	Saltwater	Static Renewal
OPP	65195-55-3	Avermectin	<i>Daphnia magna</i>	Water flea	48 hr	EC50	0.340000	Freshwater	Static
OPP	65195-55-3	Avermectin	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	24.000000	Freshwater	Static
OPP	65195-55-3	Avermectin	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	9.600000	Freshwater	Static
OPP	65195-55-3	Avermectin	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	3.600000	Freshwater	Static
CERC-GED	20762-60-1	Azide, potassium	<i>Daphnia pulex</i>	Water flea	48 hr	EC50	7500.000000	Freshwater	Static
CERC-GED	20762-60-1	Azide, potassium	<i>Gammarus fasciatus</i>	Scud	96 hr	LC50	6400.000000	Freshwater	Static
CERC-GED	20762-60-1	Azide, potassium	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	780.000000	Freshwater	Static
CERC-GED	20762-60-1	Azide, potassium	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1600.000000	Freshwater	Static
CERC-GED	20762-60-1	Azide, potassium	<i>Pteronarcys californica</i>	Stonefly	96 hr	LC50	8000.000000	Freshwater	Static
CERC-GED	20762-60-1	Azide, potassium	<i>Simocephalus serrulatus</i>	Water flea	48 hr	EC50	8400.000000	Freshwater	Static
CERC-GED	26628-22-8	Azide, sodium	<i>Daphnia pulex</i>	Water flea	48 hr	EC50	4200.000000	Freshwater	Static
CERC-GED	26628-22-8	Azide, sodium	<i>Gammarus fasciatus</i>	Scud	96 hr	LC50	5000.000000	Freshwater	Static
CERC-GED	26628-22-8	Azide, sodium	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	680.000000	Freshwater	Static
CERC-GED	26628-22-8	Azide, sodium	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	800.000000	Freshwater	Static
CERC-GED	26628-22-8	Azide, sodium	<i>Pteronarcys californica</i>	Stonefly	96 hr	LC50	9000.000000	Freshwater	Static
CERC-GED	26628-22-8	Azide, sodium	<i>Simocephalus serrulatus</i>	Water flea	48 hr	EC50	6400.000000	Freshwater	Static
CERC-GED	2642-71-9	Azinphos-ethyl	<i>Daphnia magna</i>	Water flea	48 hr	EC50	4.000000	Freshwater	Static
CERC-GED	2642-71-9	Azinphos-ethyl	<i>Daphnia pulex</i>	Water flea	48 hr	EC50	3.200000	Freshwater	Static
CERC-GED	2642-71-9	Azinphos-ethyl	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	20.000000	Freshwater	Static
CERC-GED	2642-71-9	Azinphos-ethyl	<i>Pteronarcys californica</i>	Stonefly	96 hr	LC50	1.500000	Freshwater	Static
CERC-GED	2642-71-9	Azinphos-ethyl	<i>Simocephalus serrulatus</i>	Water flea	48 hr	EC50	4.200000	Freshwater	Static
OPP	86-50-0	Azinphos-methyl	<i>Ameiurus melas</i>	Black bullhead	96 hr	LC50	3500.000000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	<i>Asellus brevicaudus</i>	Aquatic sow bug	96 hr	LC50	21.000000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	<i>Bufo woodhousei fowleri</i>	Fowler's toad	96 hr	LC50	109.000000	Freshwater	Static
OPP	86-50-0	Azinphos-methyl	<i>Callinectes sapidus</i>	Blue crab	48 hr	LC50	320.000000	Saltwater	Flow Through
CERC-GED	86-50-0	Azinphos-methyl	<i>Carassius auratus</i>	Goldfish	96 hr	LC50	4270.000000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	<i>Cyprinus carpio</i>	Common carp	96 hr	LC50	695.000000	Freshwater	Static
OPP	86-50-0	Azinphos-methyl	<i>Daphnia magna</i>	Water flea	48 hr	EC50	1.100000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	<i>Gammarus fasciatus</i>	Scud	96 hr	LC50	0.150000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	3290.000000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	<i>Lepomis cyanellus</i>	Green sunfish	96 hr	LC50	52.000000	Freshwater	Static
OPP	86-50-0	Azinphos-methyl	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	4.800000	Freshwater	Flow Through
CERC-GED	86-50-0	Azinphos-methyl	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	8.000000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	22.000000	Freshwater	Static
OPP	86-50-0	Azinphos-methyl	<i>Leuciscus idus melanotus</i>	Golden orfe	96 hr	LC50	120.000000	Not Reported	Static
CERC-GED	86-50-0	Azinphos-methyl	<i>Micropterus salmoides</i>	Largemouth bass	96 hr	LC50	4.800000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	<i>Oncorhynchus kisutch</i>	Coho salmon	96 hr	LC50	6.100000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	4.300000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	6.300000	Freshwater	Static
OPP	86-50-0	Azinphos-methyl	<i>Penaeus aztecus</i>	Brown shrimp	48 hr	LC50	2.400000	Saltwater	Flow Through
CERC-GED	86-50-0	Azinphos-methyl	<i>Perca flavescens</i>	Yellow perch	96 hr	LC50	10.000000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	<i>Perca flavescens</i>	Yellow perch	96 hr	LC50	20.000000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	<i>Perca flavescens</i>	Yellow perch	96 hr	LC50	24.000000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	<i>Perca flavescens</i>	Yellow perch	96 hr	LC50	29.000000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	<i>Perca flavescens</i>	Yellow perch	96 hr	LC50	33.000000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	148.000000	Freshwater	Static

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CERC-GED	86-50-0	Azinphos-methyl	Pimephales promelas	Fathead minnow	96 hr	LC50	235.000000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	Pomoxis nigromaculatus	Black crappie	96 hr	LC50	3.000000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	Procambarus sp.	Crayfish	96 hr	LC50	56.000000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	Pteronarcys californica	Stonefly	96 hr	LC50	1.900000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	Salmo salar	Atlantic salmon	96 hr	LC50	2.100000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	Salmo salar	Atlantic salmon	96 hr	LC50	2.500000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	Salmo salar	Atlantic salmon	96 hr	LC50	2.700000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	Salmo salar	Atlantic salmon	96 hr	LC50	3.200000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	Salmo salar	Atlantic salmon	96 hr	LC50	3.500000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	Salmo salar	Atlantic salmon	96 hr	LC50	3.600000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	Salmo trutta	Brown trout	96 hr	LC50	4.600000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	Salmo trutta	Brown trout	96 hr	LC50	6.600000	Freshwater	Static
CERC-GED	86-50-0	Azinphos-methyl	Salvelinus fontinalis	Brook trout	96 hr	LC50	1.200000	Freshwater	Static
OPP	131860-33-8	Azoxystrobin	Americamysis bahia	Mysid	96 hr	LC50	56.000000	Saltwater	Static
OPP	131860-33-8	Azoxystrobin	Crassostrea gigas	Pacific oyster	48 hr	EC50	1300.000000	Saltwater	Static
OPP	131860-33-8	Azoxystrobin	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	671.000000	Saltwater	Flow Through
OPP	131860-33-8	Azoxystrobin	Daphnia magna	Water flea	48 hr	EC50	259.000000	Freshwater	Static
OPP	131860-33-8	Azoxystrobin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	110.000000	Freshwater	Flow Through
OPP	131860-33-8	Azoxystrobin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	470.000000	Freshwater	Flow Through
OPP	68038-71-1	Bacillus thuringiensis	Dugesia sp.	Flatworm	48 hr	LC50	856.000000	Not Reported	Not Reported
CERC-GED	68038-71-1	Bacillus thuringiensis	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	9500.000000	Freshwater	Static
CERC-GED	68038-71-1	Bacillus thuringiensis	Pteronarcys californica	Stonefly	96 hr	LC50	10000.000000	Freshwater	Static
OPP	13701-59-2	Barium metaborate	Daphnia magna	Water flea	48 hr	EC50	20300.000000	Freshwater	Static
OPP	13701-59-2	Barium metaborate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	151000.000000	Freshwater	Static
OPP	13701-59-2	Barium metaborate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	62000.000000	Freshwater	Static
OPP	22781-23-3	Bendiocarb	Americamysis bahia	Mysid	96 hr	LC50	6.700000	Saltwater	Flow Through
OPP	22781-23-3	Bendiocarb	Crassostrea virginica	Eastern oyster	96 hr	EC50	670.000000	Saltwater	Flow Through
OPP	22781-23-3	Bendiocarb	Daphnia magna	Water flea	48 hr	EC50	29.200000	Freshwater	Static
OPP	22781-23-3	Bendiocarb	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	470.000000	Freshwater	Static
OPP	22781-23-3	Bendiocarb	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	780.000000	Freshwater	Static
OPP	22781-23-3	Bendiocarb	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1350.000000	Freshwater	Static
OPP	22781-23-3	Bendiocarb	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1650.000000	Freshwater	Flow Through
OPP	22781-23-3	Bendiocarb	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1200.000000	Freshwater	Static
OPP	22781-23-3	Bendiocarb	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1550.000000	Freshwater	Flow Through
OPP	1861-40-1	Benefin - Benfluralin	Americamysis bahia	Mysid	96 hr	LC50	43.000000	Saltwater	Flow Through
CERC-GED	1861-40-1	Benefin - Benfluralin	Carassius auratus	Goldfish	96 hr	LC50	810.000000	Freshwater	Static
OPP	1861-40-1	Benefin - Benfluralin	Crassostrea virginica	Eastern oyster	96 hr	EC50	103000.000000	Saltwater	Flow Through
CERC-GED	1861-40-1	Benefin - Benfluralin	Gammarus fasciatus	Scud	96 hr	LC50	1100.000000	Freshwater	Static
OPP	1861-40-1	Benefin - Benfluralin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	65.000000	Freshwater	Flow Through
OPP	1861-40-1	Benefin - Benfluralin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	600.000000	Freshwater	Static Renewal
OPP	1861-40-1	Benefin - Benfluralin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	81.000000	Freshwater	Static Renewal
OPP	17804-35-2	Benomyl	Americamysis bahia	Mysid	96 hr	LC50	175.000000	Saltwater	Static
CERC-GED	17804-35-2	Benomyl	Chironomus plumosus	Midge	48 hr	EC50	7000.000000	Freshwater	Static
OPP	17804-35-2	Benomyl	Crassostrea virginica	Eastern oyster	96 hr	EC50	1376.000000	Saltwater	Flow Through
OPP	17804-35-2	Benomyl	Daphnia magna	Water flea	48 hr	EC50	285.000000	Freshwater	Static
OPP	17804-35-2	Benomyl	Daphnia magna	Water flea	48 hr	EC50	350.000000	Freshwater	Static
OPP	17804-35-2	Benomyl	Daphnia magna	Water flea	48 hr	EC50	390.000000	Freshwater	Static
CERC-GED	17804-35-2	Benomyl	Daphnia magna	Water flea	48 hr	EC50	2800.000000	Freshwater	Static
CERC-GED	17804-35-2	Benomyl	Gammarus pseudolimnaeus	Scud	96 hr	LC50	750.000000	Freshwater	Static
CERC-GED	17804-35-2	Benomyl	Ictalurus punctatus	Channel catfish	96 hr	LC50	29.000000	Freshwater	Static
CERC-GED	17804-35-2	Benomyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	390.000000	Freshwater	Static
CERC-GED	17804-35-2	Benomyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	560.000000	Freshwater	Static
CERC-GED	17804-35-2	Benomyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	850.000000	Freshwater	Static
OPP	17804-35-2	Benomyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	920.000000	Freshwater	Static
CERC-GED	17804-35-2	Benomyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1200.000000	Freshwater	Static
CERC-GED	17804-35-2	Benomyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1300.000000	Freshwater	Static
CERC-GED	17804-35-2	Benomyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	120.000000	Freshwater	Static
CERC-GED	17804-35-2	Benomyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	150.000000	Freshwater	Static
CERC-GED	17804-35-2	Benomyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	170.000000	Freshwater	Static
CERC-GED	17804-35-2	Benomyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	190.000000	Freshwater	Static
CERC-GED	17804-35-2	Benomyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	200.000000	Freshwater	Static
CERC-GED	17804-35-2	Benomyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	230.000000	Freshwater	Static
CERC-GED	17804-35-2	Benomyl	Pimephales promelas	Fathead minnow	96 hr	LC50	1300.000000	Freshwater	Static

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CERC-GED	17804-35-2	Benomyl	Pimephales promelas	Fathead minnow	96 hr	LC50	2200.000000	Freshwater	Static
OPP	741-58-2	Bensulide	Americamysis bahia	Mysid	96 hr	LC50	62.400000	Saltwater	Flow Through
OPP	741-58-2	Bensulide	Crassostrea virginica	Eastern oyster	96 hr	EC50	250.000000	Saltwater	Flow Through
OPP	741-58-2	Bensulide	Crassostrea virginica	Eastern oyster	96 hr	EC50	450.000000	Saltwater	Flow Through
OPP	741-58-2	Bensulide	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	560.000000	Saltwater	Flow Through
OPP	741-58-2	Bensulide	Daphnia magna	Water flea	48 hr	EC50	580.000000	Freshwater	Static
CERC-GED	741-58-2	Bensulide	Gammarus fasciatus	Scud	96 hr	LC50	1400.000000	Freshwater	Static
OPP	741-58-2	Bensulide	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1400.000000	Freshwater	Static
OPP	741-58-2	Bensulide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	720.000000	Freshwater	Static
OPP	741-58-2	Bensulide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1100.000000	Freshwater	Static
OPP	50723-80-3	Bentazon	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	610000.000000	Freshwater	Static
OPP	50723-80-3	Bentazon	Mercenaria mercenaria	Quahog clam	48 hr	LC50	20000.000000	Saltwater	Static
OPP	50723-80-3	Bentazon	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	190000.000000	Freshwater	Static
OPP	2634-33-5	Benzothiazolin-3-one	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1600.000000	Freshwater	Flow Through
CERC-GED	149-30-4	Benzothiazole 2-mercapto	Ictalurus punctatus	Channel catfish	96 hr	LC50	1650.000000	Freshwater	Static
CERC-GED	149-30-4	Benzothiazole 2-mercapto	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2250.000000	Freshwater	Static
CERC-GED	149-30-4	Benzothiazole 2-mercapto	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4200.000000	Freshwater	Static
CERC-GED	149-30-4	Benzothiazole 2-mercapto	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	760.000000	Freshwater	Static
CERC-GED	64036-43-7	Benzothiazole 2-methyl mercapto	Chironomus plumosus	Midge	48 hr	EC50	1300.000000	Freshwater	Static
CERC-GED	64036-43-7	Benzothiazole 2-methyl mercapto	Gammarus pseudolimnaeus	Scud	96 hr	LC50	4200.000000	Freshwater	Static
CERC-GED	64036-43-7	Benzothiazole 2-methyl mercapto	Ictalurus punctatus	Channel catfish	96 hr	LC50	7600.000000	Freshwater	Static
CERC-GED	64036-43-7	Benzothiazole 2-methyl mercapto	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4300.000000	Freshwater	Static
CERC-GED	64036-43-7	Benzothiazole 2-methyl mercapto	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	5700.000000	Freshwater	Static
CERC-GED	64036-43-7	Benzothiazole 2-methyl mercapto	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3700.000000	Freshwater	Static
CERC-GED	33878-50-1	Benzoylprop ethyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1200.000000	Freshwater	Static
CERC-GED	33878-50-1	Benzoylprop ethyl	Pimephales promelas	Fathead minnow	96 hr	LC50	860.000000	Freshwater	Static
OPP	149877-41-81	Bifenazate	Daphnia magna	Water flea	48 hr	EC50	500.000000	Freshwater	Flow Through
OPP	149877-41-81	Bifenazate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	580.000000	Freshwater	Flow Through
OPP	149877-41-81	Bifenazate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	760.000000	Freshwater	Flow Through
CERC-GED	485-31-4	Binapacryl	Ictalurus punctatus	Channel catfish	96 hr	LC50	15.000000	Freshwater	Static
CERC-GED	485-31-4	Binapacryl	Lepomis cyanellus	Green sunfish	96 hr	LC50	43.000000	Freshwater	Static
CERC-GED	485-31-4	Binapacryl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	40.000000	Freshwater	Static
CERC-GED	485-31-4	Binapacryl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	50.000000	Freshwater	Static
OPP	2224-44-4	Bioban P-1487	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	750.000000	Freshwater	Static Renewal
OPP	28434-01-7	Bioresmethrin	Daphnia magna	Water flea	48 hr	EC50	0.800000	Freshwater	Static
OPP	28434-01-7	Bioresmethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	0.800000	Freshwater	Static
OPP	28434-01-7	Bioresmethrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	0.620000	Freshwater	Static
OPP	3064-70-8	Bis(trichloromethyl)Sulfone	Daphnia magna	Water flea	48 hr	EC50	173.000000	Freshwater	Static
OPP	3064-70-8	Bis(trichloromethyl)Sulfone	Mercenaria mercenaria	Quahog clam	48 hr	EC50	9.200000	Saltwater	Static
OPP	3064-70-8	Bis(trichloromethyl)Sulfone	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	29.000000	Freshwater	Static
OPP	10043-35-3	Boric acid	Daphnia magna	Water flea	48 hr	EC50	133000.000000	Freshwater	Static Renewal
OPP	10043-35-3	Boric acid	Daphnia magna	Water flea	48 hr	EC50	226000.000000	Freshwater	Static
OPP	10043-35-3	Boric acid	Daphnia magna	Water flea	48 hr	EC50	777000.000000	Freshwater	Static
OPP	56073-10-0	Brodifacoum	Daphnia magna	Water flea	48 hr	EC50	980.000000	Freshwater	Static
OPP	56073-10-0	Brodifacoum	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	120.000000	Freshwater	Flow Through
OPP	56073-10-0	Brodifacoum	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	25.000000	Freshwater	Static Renewal
OPP	314-40-9	Bromacil	Americamysis bahia	Mysid	96 hr	LC50	112900.000000	Saltwater	Static
OPP	314-40-9	Bromacil	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	162800.000000	Saltwater	Static
OPP	314-40-9	Bromacil	Daphnia magna	Water flea	48 hr	EC50	121000.000000	Freshwater	Static
OPP	314-40-9	Bromacil	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	127000.000000	Freshwater	Static
OPP	314-40-9	Bromacil	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	36000.000000	Freshwater	Static
OPP	314-40-9	Bromacil	Penaeus aztecus	Brown shrimp	48 hr	LC50	1000.000000	Saltwater	Flow Through
OPP	28772-56-7	Bromadiolone	Daphnia magna	Water flea	48 hr	EC50	2000.000000	Freshwater	Flow Through
OPP	63333-35-7	Bromethalin	Daphnia magna	Water flea	48 hr	EC50	1.980000	Freshwater	Static
OPP	63333-35-7	Bromethalin	Daphnia magna	Water flea	48 hr	EC50	5.100000	Freshwater	Static
OPP	63333-35-7	Bromethalin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	598.000000	Freshwater	Static
OPP	13863-41-7	Bromine chloride	Daphnia magna	Water flea	48 hr	LC50	710.000000	Freshwater	Static
OPP	13863-41-7	Bromine chloride	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	520.000000	Freshwater	Static
OPP	13863-41-7	Bromine chloride	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	310.000000	Freshwater	Static
OPP	16079-88-2	Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH)	Crassostrea virginica	Eastern oyster	96 hr	EC50	1080.000000	Saltwater	Flow Through
OPP	16079-88-2	Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH)	Daphnia magna	Water flea	48 hr	EC50	750.000000	Freshwater	Static
OPP	16079-88-2	Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH)	Daphnia magna	Water flea	48 hr	EC50	870.000000	Freshwater	Static
OPP	16079-88-2	Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH)	Daphnia magna	Water flea	48 hr	EC50	2300.000000	Freshwater	Static

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**Appendix 1**  
**Final Acute Toxicity Database**

OPP	16079-88-2	Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	360.000000	Freshwater	Static
OPP	16079-88-2	Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	460.000000	Freshwater	Static
OPP	16079-88-2	Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1170.000000	Freshwater	Static
OPP	16079-88-2	Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	140.000000	Freshwater	Static
OPP	16079-88-2	Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	400.000000	Freshwater	Static
OPP	16079-88-2	Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	670.000000	Freshwater	Static
OPP	16079-88-2	Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	750.000000	Freshwater	Static
OPP	16079-88-2	Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH) - BCDMH dehydrate	Crassostrea virginica	Eastern oyster	96 hr	EC50	1100.000000	Saltwater	Flow Through
OPP	16079-88-2	Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH) - BCDMH dehydrate	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	8100000.000000	Saltwater	Static
OPP	16079-88-2	Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH) - BCDMH dehydrate	Daphnia magna	Water flea	48 hr	EC50	6051000.000000	Freshwater	Static
OPP	16079-88-2	Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH) - BCDMH dehydrate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	12700000.000000	Freshwater	Static
OPP	16079-88-2	Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH) - BCDMH dehydrate	Palaemonetes pugio	Grass shrimp	96 hr	LC50	1255000.000000	Saltwater	Static
OPP	16079-88-2	Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH) - BCDMH dehydrate	Pimephales promelas	Fathead minnow	96 hr	LC50	14100000.000000	Freshwater	Static
OPP	7166-19-0	Bromonitrostyrene	Americamysis bahia	Mysid	96 hr	LC50	51.000000	Saltwater	Flow Through
OPP	7166-19-0	Bromonitrostyrene	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	57.000000	Saltwater	Flow Through
OPP	7166-19-0	Bromonitrostyrene	Daphnia magna	Water flea	48 hr	EC50	24.000000	Freshwater	Flow Through
OPP	7166-19-0	Bromonitrostyrene	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	17.000000	Freshwater	Flow Through
OPP	7166-19-0	Bromonitrostyrene	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	27.000000	Freshwater	Flow Through
OPP	3861-41-4	Bromoxynil (Butyrate)	Daphnia magna	Water flea	48 hr	EC50	200.000000	Freshwater	Static
OPP	3861-41-4	Bromoxynil (Butyrate)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	45.000000	Freshwater	Static
OPP	3861-41-4	Bromoxynil (Butyrate)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	29.000000	Freshwater	Static
OPP	1689-84-5	Bromoxynil (Phenol)	Daphnia magna	Water flea	48 hr	EC50	19220.000000	Freshwater	Static
OPP	1689-84-5	Bromoxynil (Phenol)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4000.000000	Freshwater	Static
OPP	1689-84-5	Bromoxynil (Phenol)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2090.000000	Freshwater	Static
OPP	56634-95-8	Bromoxynil heptanoate	Daphnia magna	Water flea	48 hr	EC50	31.000000	Freshwater	Flow Through
OPP	56634-95-8	Bromoxynil heptanoate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	29.000000	Freshwater	Flow Through
OPP	1689-99-2	Bromoxynil octanoate	Americamysis bahia	Mysid	96 hr	LC50	65.000000	Saltwater	Flow Through
OPP	1689-99-2	Bromoxynil octanoate	Americamysis bahia	Mysid	96 hr	LC50	87.000000	Saltwater	Static
OPP	1689-99-2	Bromoxynil octanoate	Crassostrea virginica	Eastern oyster	96 hr	EC50	155.000000	Saltwater	Flow Through
OPP	1689-99-2	Bromoxynil octanoate	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	170.000000	Saltwater	Flow Through
OPP	116255-48-2	Bromuconazole	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4200.000000	Freshwater	Flow Through
OPP	116255-48-2	Bromuconazole	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1700.000000	Freshwater	Flow Through
OPP	52-51-7	Bronopol	Americamysis bahia	Mysid	96 hr	LC50	5900.000000	Saltwater	Flow Through
OPP	52-51-7	Bronopol	Crassostrea gigas	Pacific oyster	48 hr	EC50	780.000000	Saltwater	Static
OPP	52-51-7	Bronopol	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	5900.000000	Saltwater	Flow Through
OPP	52-51-7	Bronopol	Daphnia magna	Water flea	48 hr	EC50	1600.000000	Freshwater	Static
OPP	52-51-7	Bronopol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	36000.000000	Freshwater	Flow Through
OPP	52-51-7	Bronopol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	20000.000000	Freshwater	Static
OPP	52-51-7	Bronopol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	42000.000000	Freshwater	Flow Through
CERC-GED	2282-34-0	Bufencarb	Americamysis bahia	Mysid	96 hr	LC50	1.000000	Saltwater	Static
CERC-GED	2282-34-0	Bufencarb	Carassius auratus	Goldfish	96 hr	LC50	294.000000	Freshwater	Static
CERC-GED	2282-34-0	Bufencarb	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	46.000000	Saltwater	Static
CERC-GED	2282-34-0	Bufencarb	Gammarus fasciatus	Scud	96 hr	LC50	1.000000	Freshwater	Static
CERC-GED	9003-13-8	Butoxy polypropylene glycol	Gammarus fasciatus	Scud	96 hr	LC50	17000.000000	Freshwater	Static
OPP	33629-47-9	Butralin	Americamysis bahia	Mysid	96 hr	LC50	70.000000	Saltwater	Flow Through
OPP	33629-47-9	Butralin	Crassostrea virginica	Eastern oyster	96 hr	EC50	120.000000	Saltwater	Flow Through
OPP	33629-47-9	Butralin	Daphnia magna	Water flea	48 hr	EC50	120.000000	Freshwater	Static Renewal
OPP	33629-47-9	Butralin	Daphnia magna	Water flea	48 hr	EC50	1000.000000	Freshwater	Static
OPP	33629-47-9	Butralin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1000.000000	Freshwater	Static
OPP	33629-47-9	Butralin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	370.000000	Freshwater	Static
OPP	2008-41-5	Butylate	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	2700.000000	Saltwater	Static
OPP	2008-41-5	Butylate	Daphnia magna	Water flea	48 hr	EC50	11900.000000	Freshwater	Static
CERC-GED	2008-41-5	Butylate	Gammarus fasciatus	Scud	96 hr	LC50	12000.000000	Freshwater	Static
OPP	2008-41-5	Butylate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6900.000000	Freshwater	Static
OPP	2008-41-5	Butylate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	7500.000000	Freshwater	Static
CERC-GED	2008-41-5	Butylate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2100.000000	Freshwater	Static
OPP	2008-41-5	Butylate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4200.000000	Freshwater	Static
OPP	2008-41-5	Butylate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	23000.000000	Freshwater	Static
CERC-GED	124-65-2	Cacodylic Acid/Sodium Cacodylate	Gammarus fasciatus	Scud	96 hr	LC50	140000.000000	Freshwater	Static
CERC-GED	124-65-2	Cacodylic Acid/Sodium Cacodylate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	17000.000000	Freshwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Ceriodaphnia reticulata	Water flea	48 hr	LC50	129.000000	Freshwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Daphnia magna	Water flea	48 hr	LC50	9.900000	Freshwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Daphnia magna	Water flea	48 hr	EC50	65.000000	Freshwater	Static

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ECOTOX	10108-64-2	Cadmium chloride	Daphnia magna	Water flea	48 hr	LC50	166.000000	Freshwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Gammarus pseudolimnaeus	Scud	96 hr	LC50	54.400000	Freshwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Gammarus pseudolimnaeus	Scud	96 hr	LC50	66.300000	Freshwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Hyalella azteca	Scud	96 hr	LC50	285.000000	Freshwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Ictalurus punctatus	Channel catfish	96 hr	LC50	7940.000000	Freshwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	8810.000000	Freshwater	Static
CERC-GED	10108-64-2	Cadmium chloride	Menidia peninsulae	Tidewater silverside	96 hr	LC50	310.000000	Saltwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2.300000	Freshwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	10.200000	Freshwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Paraleptophlebia praepedita	Mayfly	96 hr	LC50	449.000000	Freshwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Pimephales promelas	Fathead minnow	96 hr	LC50	1280.000000	Freshwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Pimephales promelas	Fathead minnow	96 hr	LC50	3390.000000	Freshwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Salmo trutta	Brown trout	96 hr	LC50	1.400000	Freshwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Salmo trutta	Brown trout	96 hr	LC50	15.100000	Freshwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Simocephalus serrulatus	Water flea	48 hr	LC50	24.500000	Freshwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Simocephalus serrulatus	Water flea	48 hr	LC50	123.000000	Freshwater	Static
ECOTOX	10108-64-2	Cadmium chloride	Simocephalus vetulus	Water flea	48 hr	LC50	89.300000	Freshwater	Static
ECOTOX	10043-52-4	Calcium chloride	Daphnia magna	Water flea	48 hr	EC50	52000.000000	Freshwater	Static
ECOTOX	10043-52-4	Calcium chloride	Daphnia magna	Water flea	48 hr	EC50	464000.000000	Freshwater	Static
OPP	2425-06-1	Captafol	Americanysis bahia	Mysid	96 hr	LC50	210.000000	Saltwater	Static
OPP	2425-06-1	Captafol	Crassostrea virginica	Eastern oyster	96 hr	EC50	34.000000	Saltwater	Flow Through
OPP	2425-06-1	Captafol	Daphnia magna	Water flea	48 hr	EC50	3440.000000	Freshwater	Static
OPP	2425-06-1	Captafol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	45.000000	Freshwater	Static
OPP	2425-06-1	Captafol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	130.000000	Freshwater	Static
OPP	2425-06-1	Captafol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	157.800000	Freshwater	Static
OPP	2425-06-1	Captafol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	27.000000	Freshwater	Static
OPP	2425-06-1	Captafol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	34.000000	Freshwater	Static
OPP	2425-06-1	Captafol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	190.000000	Freshwater	Static
OPP	133-06-2	Captan	Americanysis bahia	Mysid	96 hr	LC50	8400.000000	Saltwater	Static
OPP	133-06-2	Captan	Cancer magister	Dungeness crab	96 hr	LC50	8000.000000	Saltwater	Static
OPP	133-06-2	Captan	Daphnia magna	Water flea	48 hr	EC50	8400.000000	Freshwater	Static
CERC-GED	133-06-2	Captan	Ictalurus punctatus	Channel catfish	96 hr	LC50	77.500000	Freshwater	Static
CERC-GED	133-06-2	Captan	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	141.000000	Freshwater	Static
OPP	133-06-2	Captan	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	310.000000	Freshwater	Static
CERC-GED	133-06-2	Captan	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	56.400000	Freshwater	Static
CERC-GED	133-06-2	Captan	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	137.000000	Freshwater	Static
CERC-GED	133-06-2	Captan	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	73.200000	Freshwater	Static
CERC-GED	133-06-2	Captan	Oncorhynchus tshawytscha	Chinook salmon	96 hr	LC50	120.000000	Freshwater	Static
CERC-GED	133-06-2	Captan	Salmo trutta	Brown trout	96 hr	LC50	80.000000	Freshwater	Static
CERC-GED	133-06-2	Captan	Salvelinus namaycush	Lake trout	96 hr	LC50	49.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	Ameiurus melas	Black bullhead	96 hr	LC50	20000.000000	Freshwater	Static
OPP	63-25-2	Carbaryl	Americanysis bahia	Mysid	96 hr	LC50	5.700000	Saltwater	Flow Through
OPP	63-25-2	Carbaryl	Americanysis bahia	Mysid	96 hr	LC50	6.700000	Saltwater	Static
CERC-GED	63-25-2	Carbaryl	Asellus brevicaudus	Aquatic sow bug	96 hr	LC50	280.000000	Freshwater	Static
OPP	63-25-2	Carbaryl	Callinectes sapidus	Blue crab	48 hr	LC50	320.000000	Saltwater	Flow Through
CERC-GED	63-25-2	Carbaryl	Carassius auratus	Goldfish	96 hr	LC50	13200.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	Classeinia sabulosa	Stonefly	96 hr	LC50	5.600000	Freshwater	Static
OPP	63-25-2	Carbaryl	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	2200.000000	Saltwater	Static
OPP	63-25-2	Carbaryl	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	2600.000000	Saltwater	Flow Through
CERC-GED	63-25-2	Carbaryl	Cyprinus carpio	Common carp	96 hr	LC50	5280.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	Daphnia magna	Water flea	48 hr	EC50	5.600000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	Daphnia pulex	Water flea	48 hr	LC50	6.400000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	Gammaerurus fasciatus	Scud	96 hr	LC50	26.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	Gammaerurus lacustris	Scud	96 hr	LC50	22.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	Ictalurus punctatus	Channel catfish	96 hr	LC50	15800.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	Isogenus sp.	Stonefly	96 hr	LC50	2.800000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	Isogenus sp.	Stonefly	96 hr	LC50	3.600000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	Lepomis cyanellus	Green sunfish	96 hr	LC50	11200.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	5200.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6760.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	7000.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	8200.000000	Freshwater	Static
OPP	63-25-2	Carbaryl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	14000.000000	Freshwater	Static

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CERC-GED	63-25-2	Carbaryl	<i>Micropterus salmoides</i>	Largemouth bass	96 hr	LC50	6400.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	6700.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	6800.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	7100.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Oncorhynchus kisutch</i>	Coho salmon	96 hr	LC50	4340.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	780.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1600.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1950.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	3500.000000	Freshwater	Static
OPP	63-25-2	Carbaryl	<i>Penaeus aztecus</i>	Brown shrimp	48 hr	LC50	1.500000	Saltwater	Flow Through
OPP	63-25-2	Carbaryl	<i>Penaeus duorarum</i>	Pink shrimp	48 hr	LC50	32.000000	Saltwater	Flow Through
CERC-GED	63-25-2	Carbaryl	<i>Perca flavescens</i>	Yellow perch	96 hr	LC50	4200.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Perca flavescens</i>	Yellow perch	96 hr	LC50	5100.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Perca flavescens</i>	Yellow perch	96 hr	LC50	5400.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	14600.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Pomoxis nigromaculatus</i>	Black crappie	96 hr	LC50	2600.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Procambarus sp.</i>	Crayfish	96 hr	LC50	1900.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Pteronarcella badia</i>	Stonefly	96 hr	LC50	1.700000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Pteronarcella badia</i>	Stonefly	96 hr	LC50	13.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Pteronarcys californica</i>	Stonefly	96 hr	LC50	4.800000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Salmo salar</i>	Atlantic salmon	96 hr	LC50	4500.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Salmo trutta</i>	Brown trout	96 hr	LC50	6300.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Salvelinus fontinalis</i>	Brook trout	96 hr	LC50	1200.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Salvelinus fontinalis</i>	Brook trout	96 hr	LC50	2100.000000	Freshwater	Static
OPP	63-25-2	Carbaryl	<i>Salvelinus namaycush</i>	Lake trout	96 hr	LC50	690.000000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Simocephalus serrulatus</i>	Water flea	48 hr	EC50	7.600000	Freshwater	Static
CERC-GED	63-25-2	Carbaryl	<i>Simocephalus serrulatus</i>	Water flea	48 hr	EC50	8.100000	Freshwater	Static
OPP	1563-66-2	Carbofuran	<i>Daphnia magna</i>	Water flea	48 hr	EC50	29.000000	Freshwater	Static
OPP	1563-66-2	Carbofuran	<i>Daphnia magna</i>	Water flea	48 hr	EC50	38.600000	Freshwater	Static
CERC-GED	1563-66-2	Carbofuran	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	248.000000	Freshwater	Static
CERC-GED	1563-66-2	Carbofuran	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	88.000000	Freshwater	Static
OPP	1563-66-2	Carbofuran	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	125.700000	Freshwater	Static
CERC-GED	1563-66-2	Carbofuran	<i>Oncorhynchus kisutch</i>	Coho salmon	96 hr	LC50	530.000000	Freshwater	Static
OPP	1563-66-2	Carbofuran	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	362.000000	Freshwater	Static
CERC-GED	1563-66-2	Carbofuran	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	380.000000	Freshwater	Static
OPP	1563-66-2	Carbofuran	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	420.000000	Freshwater	Static
OPP	1563-66-2	Carbofuran	<i>Penaeus duorarum</i>	Pink shrimp	48 hr	LC50	4.600000	Saltwater	Flow Through
CERC-GED	1563-66-2	Carbofuran	<i>Perca flavescens</i>	Yellow perch	96 hr	LC50	240.000000	Freshwater	Static
CERC-GED	1563-66-2	Carbofuran	<i>Perca flavescens</i>	Yellow perch	96 hr	LC50	400.000000	Freshwater	Static
CERC-GED	1563-66-2	Carbofuran	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	872.000000	Freshwater	Static
OPP	1563-66-2	Carbofuran	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	1990.000000	Freshwater	Static
CERC-GED	1563-66-2	Carbofuran	<i>Salmo trutta</i>	Brown trout	96 hr	LC50	560.000000	Freshwater	Static
CERC-GED	786-19-6	Carbophenothion	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	13.000000	Saltwater	Static
CERC-GED	786-19-6	Carbophenothion	<i>Cyprinodon variegatus</i>	Sheepshead minnow	96 hr	LC50	17.000000	Saltwater	Static
CERC-GED	786-19-6	Carbophenothion	<i>Gammarus lacustris</i>	Scud	96 hr	LC50	5.200000	Freshwater	Static
CERC-GED	786-19-6	Carbophenothion	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	6000.000000	Freshwater	Static
CERC-GED	786-19-6	Carbophenothion	<i>Leiostomus xanthurus</i>	Spot	96 hr	LC50	500.000000	Saltwater	Static
CERC-GED	786-19-6	Carbophenothion	<i>Lepomis cyanellus</i>	Green sunfish	96 hr	LC50	280.000000	Freshwater	Static
CERC-GED	786-19-6	Carbophenothion	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	13.000000	Freshwater	Static
CERC-GED	786-19-6	Carbophenothion	<i>Penaeus setiferus</i>	White shrimp	96 hr	LC50	4.300000	Saltwater	Static
OPP	5234-68-4	Carboxin	<i>Daphnia magna</i>	Water flea	48 hr	EC50	84400.000000	Freshwater	Static
OPP	5234-68-4	Carboxin	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	1200.000000	Freshwater	Static
OPP	5234-68-4	Carboxin	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	3600.000000	Freshwater	Flow Through
OPP	5234-68-4	Carboxin	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	2000.000000	Freshwater	Static
OPP	5234-68-4	Carboxin	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	2300.000000	Freshwater	Flow Through
OPP	128639-02-1	Carfentrazone-ethyl (F8246)	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	1160.000000	Saltwater	Flow Through
OPP	128639-02-1	Carfentrazone-ethyl (F8246)	<i>Crassostrea virginica</i>	Eastern oyster	96 hr	EC50	2050.000000	Saltwater	Flow Through
OPP	128639-02-1	Carfentrazone-ethyl (F8246)	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	2000.000000	Freshwater	Flow Through
OPP	128639-02-1	Carfentrazone-ethyl (F8246)	<i>Menidia peninsulae</i>	Tidewater silverside	96 hr	LC50	1140.000000	Saltwater	Flow Through
OPP	128639-02-1	Carfentrazone-ethyl (F8246)	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1600.000000	Freshwater	Flow Through
CERC-GED	37337-13-6	CCA Type III	<i>Daphnia magna</i>	Water flea	48 hr	EC50	40.000000	Freshwater	Static
CERC-GED	37337-13-6	CCA Type III	<i>Gammarus pseudolimnaeus</i>	Scud	96 hr	LC50	50.000000	Freshwater	Static
CERC-GED	37337-13-6	CCA Type III	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	1800.000000	Freshwater	Static

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**Appendix 1**  
**Final Acute Toxicity Database**

CERC-GED	37337-13-6	CCA Type III	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	12500.000000	Freshwater	Static	
CERC-GED	13360-45-7	Chlorbromuron	Ictalurus punctatus	Channel catfish	96 hr	LC50	10200.000000	Freshwater	Static	
CERC-GED	13360-45-7	Chlorbromuron	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1400.000000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane	Daphnia pulex	Water flea	48 hr	EC50	29.000000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane	Gammarus fasciatus	Scud	96 hr	LC50	40.000000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane	Ictalurus punctatus	Channel catfish	96 hr	LC50	0.800000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	57.000000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane	Micropterus salmoides	Largemouth bass	96 hr	LC50	32.000000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	27.000000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	13.900000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	14.000000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	10.000000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	42.000000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	45.000000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane	Pimephales promelas	Fathead minnow	96 hr	LC50	115.000000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane	Pteronarcys californica	Stonefly	96 hr	LC50	15.000000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane	Salmo trutta	Brown trout	96 hr	LC50	11.100000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane	Simocephalus serrulatus	Water flea	48 hr	EC50	20.000000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane	Simocephalus serrulatus	Water flea	48 hr	EC50	24.000000	Freshwater	Static	
CERC-GED	5103-71-9	Chlordane cis	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	7.090000	Freshwater	Static	
CERC-GED	5103-74-2	Chlordane trans	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	50.500000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane-HCS-3260	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	29.300000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane-HCS-3260	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	24.900000	Freshwater	Static	
CERC-GED	57-74-9	Chlordane-HCS-3260	Pimephales promelas	Fathead minnow	96 hr	LC50	24.800000	Freshwater	Static	
OPP	143-50-0	Chlordecone (Kepone)	Americamysis bahia	Mysid	96 hr	LC50	10.000000	Saltwater	Flow Through	
CERC-GED	143-50-0	Chlordecone (Kepone)	Chironomus plumosus	Midge	48 hr	EC50	320.000000	Freshwater	Static	
OPP	143-50-0	Chlordecone (Kepone)	Crassostrea virginica	Eastern oyster	96 hr	EC50	11.000000	Saltwater	Flow Through	
CERC-GED	143-50-0	Chlordecone (Kepone)	Daphnia magna	Water flea	48 hr	EC50	260.000000	Freshwater	Static	
CERC-GED	143-50-0	Chlordecone (Kepone)	Gammaurus pseudolimnaeus	Scud	96 hr	LC50	180.000000	Freshwater	Static	
OPP	143-50-0	Chlordecone (Kepone)	Ictalurus punctatus	Channel catfish	96 hr	LC50	225.000000	Freshwater	Static	
OPP	143-50-0	Chlordecone (Kepone)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	72.000000	Freshwater	Static	
CERC-GED	143-50-0	Chlordecone (Kepone)	Lepomis microlophus	Redear sunfish	96 hr	LC50	64.000000	Freshwater	Static	
CERC-GED	143-50-0	Chlordecone (Kepone)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	30.000000	Freshwater	Static	
OPP	143-50-0	Chlordecone (Kepone)	Palamonetes pugio	Grass shrimp	96 hr	LC50	120.000000	Saltwater	Flow Through	
OPP	143-50-0	Chlordecone (Kepone)	Penaeus aztecus	Brown shrimp	48 hr	LC50	68.000000	Saltwater	Flow Through	
CERC-GED	6164-98-3	Chlordimeform	Ictalurus punctatus	Channel catfish	96 hr	LC50	20200.000000	Freshwater	Static	
CERC-GED	6164-98-3	Chlordimeform	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	13200.000000	Freshwater	Static	
CERC-GED	1773-89-3	Chlorendate dimethyl	Ictalurus punctatus	Channel catfish	96 hr	LC50	2000.000000	Freshwater	Static	
CERC-GED	1773-89-3	Chlorendate dimethyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2240.000000	Freshwater	Static	
CERC-GED	1773-89-3	Chlorendate dimethyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1400.000000	Freshwater	Static	
CERC-GED	1773-89-3	Chlorendate dimethyl	Pimephales promelas	Fathead minnow	96 hr	LC50	1700.000000	Freshwater	Static	
CERC-GED	80-06-8	Chlorfenethol	Daphnia magna	Water flea	48 hr	EC50	270.000000	Freshwater	Static	
CERC-GED	80-06-8	Chlorfenethol	Ictalurus punctatus	Channel catfish	96 hr	LC50	900.000000	Freshwater	Static	
CERC-GED	80-06-8	Chlorfenethol	Pimephales promelas	Fathead minnow	96 hr	LC50	1390.000000	Freshwater	Static	
CERC-GED	470-90-6	Chlorfenvinphos	Gammaurus fasciatus	Scud	96 hr	LC50	9.600000	Freshwater	Static	
CERC-GED	470-90-6	Chlorfenvinphos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	23.000000	Freshwater	Static	
CERC-GED	470-90-6	Chlorfenvinphos	Pteronarcys californica	Stonefly	96 hr	LC50	0.700000	Freshwater	Static	
OPP	56-95-1	Chlorhexidine diacetate	Daphnia magna	Water flea	48 hr	EC50	63.000000	Freshwater	Static	
OPP	56-95-1	Chlorhexidine diacetate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	600.000000	Freshwater	Static	
OPP	56-95-1	Chlorhexidine diacetate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1871.000000	Freshwater	Static	
OPP	90982-32-4	Chlorimuron Ethyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	8400.000000	Freshwater	Static	
OPP	510-15-6	Chlorobenzilate	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	880.000000	Saltwater	Static	
CERC-GED	510-15-6	Chlorobenzilate	Daphnia pulex	Water flea	48 hr	EC50	870.000000	Freshwater	Static	
OPP	510-15-6	Chlorobenzilate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1600.000000	Freshwater	Static	
CERC-GED	510-15-6	Chlorobenzilate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	670.000000	Freshwater	Static	
OPP	510-15-6	Chlorobenzilate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1300.000000	Freshwater	Static	
CERC-GED	510-15-6	Chlorobenzilate	Simocephalus serrulatus	Water flea	48 hr	EC50	550.000000	Freshwater	Static	
ECOTOX	74-87-3	Chloromethane	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	550000.000000	Freshwater	Static	
ECOTOX	74-87-3	Chloromethane	Menidia beryllina	Inland silverside	96 hr	LC50	270000.000000	Saltwater	Static	
OPP	2675-77-6	Chloroneb	Daphnia magna	Water flea	48 hr	EC50	6190.000000	Freshwater	Static	
OPP	2675-77-6	Chloroneb	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4900.000000	Freshwater	Static	
OPP	2675-77-6	Chloroneb	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	7900.000000	Freshwater	Static	
OPP	2675-77-6	Chloroneb	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3700.000000	Freshwater	Static	

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**Appendix 1**  
**Final Acute Toxicity Database**

OPP	3691-35-8	Chlorophacinone	Daphnia magna	Water flea	48 hr	EC50	426.000000	Freshwater	Static
OPP	3691-35-8	Chlorophacinone	Daphnia magna	Water flea	48 hr	EC50	640.000000	Freshwater	Flow Through
OPP	3691-35-8	Chlorophacinone	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	692.000000	Freshwater	Static
OPP	3691-35-8	Chlorophacinone	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	710.000000	Freshwater	Flow Through
OPP	3691-35-8	Chlorophacinone	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	252.000000	Freshwater	Static
OPP	3691-35-8	Chlorophacinone	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	450.000000	Freshwater	Flow Through
OPP	76-06-2	Chloropicrin	Daphnia pulex	Water flea	48 hr	EC50	63.000000	Freshwater	Static
OPP	76-06-2	Chloropicrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	105.000000	Freshwater	Static
OPP	76-06-2	Chloropicrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	16.500000	Freshwater	Static
OPP	1897-45-6	Chlorothalonil	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	32.000000	Saltwater	Static
OPP	1897-45-6	Chlorothalonil	Daphnia magna	Water flea	48 hr	EC50	70.000000	Freshwater	Static
OPP	1897-45-6	Chlorothalonil	Ictalurus punctatus	Channel catfish	96 hr	LC50	43.000000	Freshwater	Static
OPP	1897-45-6	Chlorothalonil	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	51.000000	Freshwater	Static
OPP	1897-45-6	Chlorothalonil	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	62.000000	Freshwater	Static
OPP	1897-45-6	Chlorothalonil	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	84.000000	Freshwater	Static
OPP	1897-45-6	Chlorothalonil	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	47.000000	Freshwater	Static
OPP	1897-45-6	Chlorothalonil	Penaeus duorarum	Pink shrimp	48 hr	LC50	320.000000	Saltwater	Flow Through
OPP	1897-45-6	Chlorothalonil(Degrad)	Crassostrea virginica	Eastern oyster	96 hr	EC50	3.600000	Saltwater	Flow Through
CERC-GED	1982-47-4	Chloroxuron	Ictalurus punctatus	Channel catfish	96 hr	LC50	450.000000	Freshwater	Static
CERC-GED	1982-47-4	Chloroxuron	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	430.000000	Freshwater	Static
OPP	101-21-3	Chlorpropham	Daphnia magna	Water flea	48 hr	EC50	3700.000000	Freshwater	Static
OPP	101-21-3	Chlorpropham	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6300.000000	Freshwater	Static
OPP	101-21-3	Chlorpropham	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6800.000000	Freshwater	Static
OPP	101-21-3	Chlorpropham	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3020.000000	Freshwater	Static
OPP	101-21-3	Chlorpropham	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	5700.000000	Freshwater	Static
OPP	2921-88-2	Chlorpyrifos	Americamysis bahia	Mysid	96 hr	LC50	0.035000	Saltwater	Flow Through
OPP	2921-88-2	Chlorpyrifos	Americamysis bahia	Mysid	96 hr	LC50	0.045000	Saltwater	Flow Through
CERC-GED	2921-88-2	Chlorpyrifos	Americamysis bahia	Mysid	96 hr	LC50	0.056000	Saltwater	Static
OPP	2921-88-2	Chlorpyrifos	Callinectes sapidus	Blue crab	48 hr	LC50	5.200000	Saltwater	Flow Through
CERC-GED	2921-88-2	Chlorpyrifos	Claassenia sabulosa	Stonefly	96 hr	LC50	0.570000	Freshwater	Static
OPP	2921-88-2	Chlorpyrifos	Crassostrea virginica	Eastern oyster	96 hr	EC50	34.000000	Saltwater	Flow Through
OPP	2921-88-2	Chlorpyrifos	Crassostrea virginica	Eastern oyster	96 hr	EC50	84.000000	Saltwater	Flow Through
CERC-GED	2921-88-2	Chlorpyrifos	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	270.000000	Saltwater	Static
OPP	2921-88-2	Chlorpyrifos	Daphnia magna	Water flea	48 hr	EC50	0.100000	Freshwater	Flow Through
OPP	2921-88-2	Chlorpyrifos	Daphnia magna	Water flea	48 hr	EC50	1.700000	Freshwater	Static
OPP	2921-88-2	Chlorpyrifos	Fundulus grandis	Gulf Killifish	96 hr	LC50	1.800000	Saltwater	Flow Through
OPP	2921-88-2	Chlorpyrifos	Fundulus similis	Longnose killifish	96 hr	LC50	3.200000	Saltwater	Flow Through
CERC-GED	2921-88-2	Chlorpyrifos	Gammaurus lacustris	Scud	96 hr	LC50	0.110000	Freshwater	Static
CERC-GED	2921-88-2	Chlorpyrifos	Ictalurus punctatus	Channel catfish	96 hr	LC50	280.000000	Freshwater	Static
CERC-GED	2921-88-2	Chlorpyrifos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2.400000	Freshwater	Static
OPP	2921-88-2	Chlorpyrifos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3.000000	Freshwater	Static
OPP	2921-88-2	Chlorpyrifos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	5.800000	Freshwater	Flow Through
ECOTOX	2921-88-2	Chlorpyrifos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	10.000000	Freshwater	Flow Through
CERC-GED	2921-88-2	Chlorpyrifos	Leuresthes tenuis	California grunion	96 hr	LC50	2.600000	Saltwater	Static
OPP	2921-88-2	Chlorpyrifos	Menidia beryllina	Inland silverside	96 hr	LC50	4.200000	Saltwater	Flow Through
OPP	2921-88-2	Chlorpyrifos	Menidia menidia	Atlantic silverside	96 hr	LC50	1.700000	Saltwater	Flow Through
CERC-GED	2921-88-2	Chlorpyrifos	Menidia menidia	Atlantic silverside	96 hr	LC50	4.100000	Saltwater	Static
OPP	2921-88-2	Chlorpyrifos	Menidia peninsulae	Tidewater silverside	96 hr	LC50	1.300000	Saltwater	Flow Through
CERC-GED	2921-88-2	Chlorpyrifos	Menidia peninsulae	Tidewater silverside	96 hr	LC50	3.900000	Saltwater	Static
OPP	2921-88-2	Chlorpyrifos	Mugil cephalus	Striped mullet	96 hr	LC50	5.400000	Saltwater	Flow Through
CERC-GED	2921-88-2	Chlorpyrifos	Oncorhynchus clarkii	Cutthroat trout	96 hr	LC50	18.400000	Freshwater	Static
CERC-GED	2921-88-2	Chlorpyrifos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	7.100000	Freshwater	Static
OPP	2921-88-2	Chlorpyrifos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	8.000000	Freshwater	Flow Through
ECOTOX	2921-88-2	Chlorpyrifos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	9.000000	Freshwater	Flow Through
OPP	2921-88-2	Chlorpyrifos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	27.000000	Freshwater	Flow Through
OPP	2921-88-2	Chlorpyrifos	Opsanus beta	Gulf toadfish	96 hr	LC50	68.000000	Saltwater	Flow Through
CERC-GED	2921-88-2	Chlorpyrifos	Opsanus beta	Gulf toadfish	96 hr	LC50	520.000000	Saltwater	Static
OPP	2921-88-2	Chlorpyrifos	Penaeus aztecus	Brown shrimp	48 hr	LC50	0.200000	Saltwater	Flow Through
OPP	2921-88-2	Chlorpyrifos	Penaeus duorarum	Pink shrimp	48 hr	LC50	2.400000	Saltwater	Flow Through
OPP	2921-88-2	Chlorpyrifos	Pimephales promelas	Fathead minnow	96 hr	LC50	140.000000	Freshwater	Flow Through
ECOTOX	2921-88-2	Chlorpyrifos	Pimephales promelas	Fathead minnow	96 hr	LC50	542.000000	Freshwater	Flow Through
CERC-GED	2921-88-2	Chlorpyrifos	Pteronarcys californica	Stonefly	96 hr	LC50	10.000000	Freshwater	Static
OPP	2921-88-2	Chlorpyrifos	Salvelinus namaycush	Lake trout	96 hr	LC50	73.000000	Freshwater	Static

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OPP	5598-13-0	Chlorpyrifos-methyl	Daphnia magna	Water flea	48 hr	EC50	1.110000	Freshwater	Static
OPP	5598-13-0	Chlorpyrifos-methyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	880.000000	Freshwater	Static
CERC-GED	5598-13-0	Chlorpyrifos-methyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	301.000000	Freshwater	Static
OPP	5598-13-0	Chlorpyrifos-methyl	Penaeus aztecus	Brown shrimp	48 hr	LC50	0.680000	Saltwater	Static
OPP	5598-13-0	Chlorpyrifos-methyl	Penaeus duorarum	Pink shrimp	48 hr	LC50	0.028000	Saltwater	Static
CERC-GED	5598-13-0	Chlorpyrifos-methyl	Pimephales promelas	Fathead minnow	96 hr	LC50	678.000000	Freshwater	Static
CERC-GED	5598-13-0	Chlorpyrifos-methyl	Salvelinus fontinalis	Brook trout	96 hr	LC50	200.000000	Freshwater	Static
OPP	64902-72-3	Chlorsulfuron	Americamysis bahia	Mysid	96 hr	LC50	89000.000000	Saltwater	Static
OPP	64902-72-3	Chlorsulfuron	Daphnia magna	Water flea	48 hr	EC50	370000.000000	Freshwater	Static
OPP	64902-72-3	Chlorsulfuron	Ictalurus punctatus	Channel catfish	96 hr	LC50	50000.000000	Freshwater	Static
ECOTOX	7789-00-6	Chromic acid, Dipotassium salt	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	170000.000000	Freshwater	Static
OPP	95266-40-3	Cimecticarb	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	180000.000000	Saltwater	Flow Through
OPP	95266-40-3	Cimecticarb	Cyprinus carpio	Common carp	96 hr	LC50	57000.000000	Freshwater	Flow Through
OPP	95266-40-3	Cimecticarb	Ictalurus punctatus	Channel catfish	96 hr	LC50	35000.000000	Freshwater	Flow Through
OPP	95266-40-3	Cimecticarb	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	65700.000000	Freshwater	Static Renewal
OPP	8000-29-1	Citronella oil	Daphnia magna	Water flea	48 hr	EC50	26400.000000	Freshwater	Static
OPP	8000-29-1	Citronella oil	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	17300.000000	Freshwater	Static
CERC-GED	Unknown	Clarifite	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	13000.000000	Freshwater	Static
OPP	105511-96-4	Clodinafop-propargyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	240.000000	Freshwater	Flow Through
OPP	105511-96-4	Clodinafop-propargyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	300.000000	Freshwater	Flow Through
OPP	105511-96-4	Clodinafop-propargyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	390.000000	Freshwater	Static
OPP	81777-89-1	Clomazone	Americamysis bahia	Mysid	96 hr	LC50	566.000000	Saltwater	Flow Through
OPP	81777-89-1	Clomazone	Crassostrea virginica	Eastern oyster	96 hr	EC50	5300.000000	Saltwater	Flow Through
OPP	81777-89-1	Clomazone	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	40600.000000	Saltwater	Flow Through
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Ameiurus melas	Black bullhead	96 hr	LC50	88.000000	Freshwater	Static
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Ameiurus nebulosus	Brown bullhead	96 hr	LC50	56.000000	Freshwater	Static
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Carassius auratus	Goldfish	96 hr	LC50	230.000000	Freshwater	Static
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Catostomus commersoni	White sucker	96 hr	LC50	81.000000	Freshwater	Static
CERC-GED	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Cypridopsis vidua	Ostracod	48 hr	LC50	310.000000	Freshwater	Static
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Cyprinus carpio	Common carp	96 hr	LC50	120.000000	Freshwater	Static
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Cyprinus carpio	Common carp	96 hr	LC50	139.000000	Freshwater	Static
CERC-GED	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Gammarus fasciatus	Scud	96 hr	LC50	360.000000	Freshwater	Static
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Ictalurus punctatus	Channel catfish	96 hr	LC50	82.000000	Freshwater	Static
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Lepomis cyanellus	Green sunfish	96 hr	LC50	100.000000	Freshwater	Static
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Lepomis cyanellus	Green sunfish	96 hr	LC50	170.000000	Freshwater	Static
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	68.000000	Freshwater	Static
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	230.000000	Freshwater	Flow Through
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Micropterus dolomieu	Smallmouth bass	96 hr	LC50	60.000000	Freshwater	Static
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Micropterus salmoides	Largemouth bass	96 hr	LC50	62.000000	Freshwater	Static
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	50.000000	Freshwater	Static
CERC-GED	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	340.000000	Freshwater	Static
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Perca flavescens	Yellow perch	96 hr	LC50	81.000000	Freshwater	Static
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Pimephales promelas	Fathead minnow	96 hr	LC50	102.000000	Freshwater	Static
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Salvelinus fontinalis	Brook trout	96 hr	LC50	61.000000	Freshwater	Static
OPP	1420-04-8	Clonotalide (Niclosamide (ethanolamine salt))	Tilapia sp.	Tilapia	96 hr	LC50	109.000000	Freshwater	Static
OPP	57754-85-5	Clopyralid, monoethanolamine salt	Daphnia magna	Water flea	48 hr	EC50	225000.000000	Freshwater	Static
OPP	57754-85-5	Clopyralid, monoethanolamine salt	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	125400.000000	Freshwater	Static
OPP	57754-85-5	Clopyralid, monoethanolamine salt	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	103500.000000	Freshwater	Static
OPP	8007-45-2	Coal Tar	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2000.000000	Freshwater	Static
OPP	8007-45-2	Coal Tar	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3130.000000	Freshwater	Static
OPP	8007-45-2	Coal Tar	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	900.000000	Freshwater	Static
OPP	1338-02-9	Copper naphthenate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	161.000000	Freshwater	Static Renewal
CERC-GED	10031-43-3	Copper nitrate	Leiostomus xanthurus	Spot	96 hr	LC50	280.000000	Saltwater	Static
CERC-GED	10031-43-3	Copper nitrate	Menidia peninsulae	Tidewater silverside	96 hr	LC50	140.000000	Saltwater	Static
ECOTOX	7758-98-7	Copper sulfate	Anguilla rostrata	American eel	96 hr	LC50	2540.000000	Freshwater	Static
ECOTOX	7758-98-7	Copper sulfate	Anguilla rostrata	American eel	96 hr	LC50	3200.000000	Freshwater	Static
ECOTOX	7758-98-7	Copper sulfate	Campeolina decisum	Brown mystery snail	96 hr	EC50	1700.000000	Freshwater	Flow Through
ECOTOX	7758-98-7	Copper sulfate	Carassius auratus	Goldfish	96 hr	LC50	300.000000	Freshwater	Flow Through
ECOTOX	7758-98-7	Copper sulfate	Daphnia magna	Water flea	48 hr	LC50	10.000000	Freshwater	Static
ECOTOX	7758-98-7	Copper sulfate	Daphnia pulex	Water flea	48 hr	LC50	20.000000	Freshwater	Static
ECOTOX	7758-98-7	Copper sulfate	Gammarus pseudolimnaeus	Scud	96 hr	EC50	20.000000	Freshwater	Flow Through
CERC-GED	7758-98-7	Copper sulfate	Lepomis cyanellus	Green sunfish	96 hr	LC50	3510.000000	Freshwater	Static
CERC-GED	7758-98-7	Copper sulfate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	884.000000	Freshwater	Static

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**Final Acute Toxicity Database**

OPP	7758-98-7	Copper sulfate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	135.000000	Freshwater	Static
ECOTOX	7758-98-7	Copper sulfate	Physa integra	Pouch snail	96 hr	EC50	39.000000	Freshwater	Flow Through
OPP	7758-99-8	Copper sulfate, pentahydrate	Daphnia magna	Water flea	48 hr	EC50	180.000000	Freshwater	Static
OPP	7758-99-8	Copper sulfate, pentahydrate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1300.000000	Freshwater	Static
OPP	7758-99-8	Copper sulfate, pentahydrate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2800.000000	Freshwater	Static
OPP	7758-99-8	Copper sulfate, pentahydrate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2870.000000	Freshwater	Static
OPP	7758-99-8	Copper sulfate, pentahydrate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2950.000000	Freshwater	Static
OPP	7758-99-8	Copper sulfate, pentahydrate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	32.000000	Freshwater	Static
OPP	7758-99-8	Copper sulfate, pentahydrate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	130.000000	Freshwater	Static
OPP	7758-99-8	Copper sulfate, pentahydrate	Palaeomonetes vulgaris	Shore shrimp	96 hr	LC50	17000.000000	Saltwater	Static
OPP	7758-99-8	Copper sulfate, pentahydrate	Trachinotus carolinus	Florida pompano	96 hr	LC50	1420.000000	Saltwater	Static
OPP	52316-55-9	Correx (Lignasan BLP)	Daphnia magna	Water flea	48 hr	EC50	140.000000	Freshwater	Static
CERC-GED	52316-55-9	Correx (Lignasan BLP)	Ictalurus punctatus	Channel catfish	96 hr	LC50	22.000000	Freshwater	Static
OPP	52316-55-9	Correx (Lignasan BLP)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	257000.000000	Freshwater	Static
CERC-GED	52316-55-9	Correx (Lignasan BLP)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1600.000000	Freshwater	Static
OPP	56-72-4	Coumaphos	Crassostrea virginica	Eastern oyster	96 hr	EC50	290.000000	Saltwater	Flow Through
CERC-GED	56-72-4	Coumaphos	Gammarus lacustris	Scud	96 hr	LC50	0.074000	Freshwater	Static
OPP	56-72-4	Coumaphos	Gammarus lacustris	Scud	96 hr	LC50	0.150000	Freshwater	Static
CERC-GED	56-72-4	Coumaphos	Ictalurus punctatus	Channel catfish	96 hr	LC50	840.000000	Freshwater	Static
CERC-GED	56-72-4	Coumaphos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	340.000000	Freshwater	Static
CERC-GED	56-72-4	Coumaphos	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	862.000000	Freshwater	Static
CERC-GED	56-72-4	Coumaphos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	890.000000	Freshwater	Static
OPP	56-72-4	Coumaphos	Penaeus duorarum	Pink shrimp	48 hr	LC50	2.000000	Saltwater	Flow Through
OPP	56-72-4	Coumaphos	Salvelinus namaycush	Lake trout	96 hr	LC50	593.000000	Freshwater	Static
CERC-GED	56-72-4	Coumaphos	Simocephalus serrulatus	Water flea	48 hr	EC50	0.100000	Freshwater	Static
OPP	56-72-4	Coumaphos	Stizostedion vitreum	Walleye	96 hr	LC50	780.000000	Freshwater	Static
CERC-GED	8001-58-9	Creosote-Coal Tar Distillate	Americanays bahia	Mysid	96 hr	LC50	18.000000	Saltwater	Static
CERC-GED	8001-58-9	Creosote-Coal Tar Distillate	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	720.000000	Saltwater	Static
OPP	8001-58-9	Creosote-Coal Tar Distillate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	600.000000	Freshwater	Static
OPP	7700-17-6	Crotoxyphos	Gammarus fasciatus	Scud	96 hr	LC50	11.000000	Freshwater	Static
CERC-GED	7700-17-6	Crotoxyphos	Ictalurus punctatus	Channel catfish	96 hr	LC50	2600.000000	Freshwater	Static
CERC-GED	7700-17-6	Crotoxyphos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	152.000000	Freshwater	Static
CERC-GED	7700-17-6	Crotoxyphos	Micropterus salmoides	Largemouth bass	96 hr	LC50	1100.000000	Freshwater	Static
CERC-GED	7700-17-6	Crotoxyphos	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	51.000000	Freshwater	Static
CERC-GED	7700-17-6	Crotoxyphos	Pimephales promelas	Fathead minnow	96 hr	LC50	11900.000000	Freshwater	Static
CERC-GED	299-86-5	Crufomate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1800.000000	Freshwater	Static
CERC-GED	15096-52-3	Cryolite	Daphnia pulex	Water flea	48 hr	EC50	10000.000000	Freshwater	Static
CERC-GED	15096-52-3	Cryolite	Simocephalus serrulatus	Water flea	48 hr	EC50	5000.000000	Freshwater	Static
ECOTOX	7447-39-4	Cupric chloride	Acrocheilus alutaceus	Chiselmouth	96 hr	LC50	143.000000	Freshwater	Flow Through
ECOTOX	7447-39-4	Cupric chloride	Daphnia magna	Water flea	48 hr	EC50	9.800000	Freshwater	Static
ECOTOX	7447-39-4	Cupric chloride	Daphnia magna	Water flea	48 hr	LC50	26.000000	Freshwater	Static
ECOTOX	7447-39-4	Cupric chloride	Oncorhynchus nerka	Sockeye salmon	96 hr	LC50	240.000000	Freshwater	R
ECOTOX	3251-23-8	Cupric nitrate	Gambusia affinis	Mosquitofish	96 hr	LC50	93.000000	Freshwater	Static
OPP	1317-39-1	Cuprous oxide	Americanays bahia	Mysid	96 hr	LC50	69.700000	Saltwater	Static
OPP	1111-67-7	Cuprous thiocyanate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	79.000000	Freshwater	Static
OPP	1111-67-7	Cuprous thiocyanate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	77.000000	Freshwater	Static
CERC-GED	66555-33-7	Cutrine-Plus	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1320.000000	Freshwater	Static
CERC-GED	66555-33-7	Cutrine-Plus	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2300.000000	Freshwater	Static
CERC-GED	66555-33-7	Cutrine-Plus	Pomacea paludosa	Apple snail	96 hr	LC50	48.000000	Freshwater	Static
OPP	21725-46-2	Cyanazine	Daphnia magna	Water flea	48 hr	EC50	42000.000000	Freshwater	Static
OPP	21725-46-2	Cyanazine	Daphnia magna	Water flea	48 hr	EC50	49000.000000	Freshwater	Static
CERC-GED	21725-46-2	Cyanazine	Pimephales promelas	Fathead minnow	96 hr	LC50	16300.000000	Freshwater	Static
OPP	113136-77-9	Cyclanilide	Americanays bahia	Mysid	96 hr	LC50	5000.000000	Saltwater	Flow Through
OPP	113136-77-9	Cyclanilide	Crassostrea virginica	Eastern oyster	96 hr	EC50	19000.000000	Saltwater	Flow Through
OPP	113136-77-9	Cyclanilide	Daphnia magna	Water flea	48 hr	EC50	5000.000000	Freshwater	Flow Through
OPP	1134-23-2	Cycloate	Daphnia magna	Water flea	48 hr	EC50	24000.000000	Freshwater	Static
OPP	1134-23-2	Cycloate	Gammarus fasciatus	Scud	96 hr	LC50	2600.000000	Freshwater	Static
OPP	1134-23-2	Cycloate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4600.000000	Freshwater	Static
OPP	1134-23-2	Cycloate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6800.000000	Freshwater	Static
OPP	1134-23-2	Cycloate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4500.000000	Freshwater	Static
OPP	1134-23-2	Cycloate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	7000.000000	Freshwater	NR
OPP	68359-37-5	Cyfluthrin	Americanays bahia	Mysid	96 hr	LC50	0.002420	Saltwater	Flow Through
OPP	68359-37-5	Cyfluthrin	Americanays bahia	Mysid	96 hr	LC50	0.006370	Saltwater	Flow Through

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OPP	68359-37-5	Cyfluthrin	Crassostrea virginica	Eastern oyster	96 hr	EC50	2.690000	Saltwater	Flow Through
OPP	91465-08-6	Cyhalothrin	Americamysis bahia	Mysid	96 hr	LC50	0.004100	Saltwater	Flow Through
OPP	91465-08-6	Cyhalothrin	Daphnia magna	Water flea	48 hr	EC50	0.230000	Freshwater	Static
OPP	91465-08-6	Cyhalothrin	Daphnia magna	Water flea	48 hr	EC50	0.380000	Freshwater	Static
OPP	91465-08-6	Cyhalothrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	0.210000	Freshwater	Flow Through
OPP	91465-08-6	Cyhalothrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	0.460000	Freshwater	Flow Through
OPP	91465-08-6	Cyhalothrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	0.240000	Freshwater	Flow Through
OPP	91465-08-6	Cyhalothrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	0.540000	Freshwater	Flow Through
OPP	13121-70-5	Cyhexatin (Pictran)	Crassostrea virginica	Eastern oyster	96 hr	EC50	0.124000	Saltwater	Flow Through
CERC-GED	13121-70-5	Cyhexatin (Pictran)	Daphnia magna	Water flea	48 hr	EC50	0.170000	Freshwater	Static
CERC-GED	13121-70-5	Cyhexatin (Pictran)	Gammarus fasciatus	Scud	96 hr	LC50	5.000000	Freshwater	Static
OPP	13121-70-5	Cyhexatin (Pictran)	Leiostomus xanthurus	Spot	96 hr	LC50	2.000000	Saltwater	Static
OPP	13121-70-5	Cyhexatin (Pictran)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3.700000	Freshwater	Static
CERC-GED	13121-70-5	Cyhexatin (Pictran)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6.700000	Freshwater	Static
OPP	13121-70-5	Cyhexatin (Pictran)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1.290000	Freshwater	Static
OPP	57966-95-7	Cymoxanil	Cyprinus carpio	Common carp	96 hr	LC50	91000.000000	Freshwater	Static
OPP	57966-95-7	Cymoxanil	Daphnia magna	Water flea	48 hr	EC50	28000.000000	Freshwater	Static
OPP	57966-95-7	Cymoxanil	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	61000.000000	Freshwater	Static
OPP	52315-07-8	Cypermethrin	Americamysis bahia	Mysid	96 hr	LC50	0.004700	Saltwater	Flow Through
OPP	52315-07-8	Cypermethrin	Cloeon dipterum	Mayfly	96 hr	LC50	0.030000	Freshwater	Flow Through
OPP	52315-07-8	Cypermethrin	Crassostrea virginica	Eastern oyster	96 hr	EC50	370.000000	Saltwater	Flow Through
OPP	52315-07-8	Cypermethrin	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	0.730000	Saltwater	Flow Through
OPP	52315-07-8	Cypermethrin	Daphnia magna	Water flea	48 hr	EC50	1.000000	Freshwater	Static
OPP	52315-07-8	Cypermethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1.780000	Freshwater	Flow Through
OPP	52315-07-8	Cypermethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2.200000	Freshwater	Flow Through
OPP	52315-07-8	Cypermethrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	0.920000	Freshwater	Flow Through
OPP	52315-07-8	Cypermethrin	Orconectes nais	Crayfish	96 hr	LC50	0.069000	Freshwater	Flow Through
OPP	52315-07-8	Cypermethrin	Palaeomonetes pugio	Grass shrimp	96 hr	LC50	0.016000	Saltwater	Flow Through
OPP	52315-07-8	Cypermethrin	Uca pugilator	Fiddler crab	96 hr	LC50	0.197000	Saltwater	Flow Through
OPP	39515-40-7	Cyphothrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	0.340000	Freshwater	Flow Through
CERC-GED	22936-86-3	Cyprazine	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	30400.000000	Freshwater	Static
CERC-GED	22936-86-3	Cyprazine	Pimephales promelas	Fathead minnow	96 hr	LC50	13800.000000	Freshwater	Static
OPP	94361-06-5	Cyproconazole	Americamysis bahia	Mysid	96 hr	LC50	9600.000000	Saltwater	Flow Through
OPP	94361-06-5	Cyproconazole	Crassostrea virginica	Eastern oyster	96 hr	EC50	2600.000000	Saltwater	Flow Through
OPP	94361-06-5	Cyproconazole	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	21000.000000	Saltwater	Flow Through
OPP	94361-06-5	Cyproconazole	Daphnia magna	Water flea	48 hr	EC50	26000.000000	Freshwater	Static
OPP	94361-06-5	Cyproconazole	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	21000.000000	Freshwater	Static
OPP	94361-06-5	Cyproconazole	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	19000.000000	Freshwater	Static
OPP	121552-61-2	Cyprodinil	Americamysis bahia	Mysid	96 hr	EC50	8140.000000	Saltwater	Flow Through
OPP	121552-61-2	Cyprodinil	Crassostrea virginica	Eastern oyster	96 hr	EC50	433.000000	Saltwater	Flow Through
OPP	121552-61-2	Cyprodinil	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	1250.000000	Saltwater	Flow Through
OPP	121552-61-2	Cyprodinil	Daphnia magna	Water flea	48 hr	EC50	32.000000	Freshwater	Flow Through
OPP	121552-61-2	Cyprodinil	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3200.000000	Freshwater	Flow Through
OPP	121552-61-2	Cyprodinil	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2410.000000	Freshwater	Static
CERC-GED	75-99-0	Dalapon	Daphnia pulex	Water flea	48 hr	EC50	11000.000000	Freshwater	Static
CERC-GED	75-99-0	Dalapon	Simoccephalus serrulatus	Water flea	48 hr	EC50	16000.000000	Freshwater	Static
OPP	1596-84-5	Daminozide	Daphnia magna	Water flea	48 hr	EC50	98500.000000	Freshwater	Static
OPP	1596-84-5	Daminozide	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	448000.000000	Freshwater	Static
OPP	1596-84-5	Daminozide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	149300.000000	Freshwater	Static
OPP	533-74-4	Dazomet	Americamysis bahia	Mysid	96 hr	LC50	710.000000	Saltwater	Flow Through
OPP	533-74-4	Dazomet	Crassostrea virginica	Eastern oyster	96 hr	EC50	730.000000	Saltwater	Flow Through
OPP	533-74-4	Dazomet	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	500.000000	Saltwater	Static
OPP	533-74-4	Dazomet	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	97000.000000	Saltwater	Flow Through
OPP	533-74-4	Dazomet	Daphnia magna	Water flea	48 hr	EC50	310.000000	Freshwater	Static
OPP	533-74-4	Dazomet	Daphnia magna	Water flea	48 hr	EC50	11900.000000	Freshwater	Flow Through
OPP	533-74-4	Dazomet	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	300.000000	Freshwater	Static
OPP	533-74-4	Dazomet	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	160.000000	Freshwater	Static
OPP	533-74-4	Dazomet	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	160.000000	Freshwater	Static
OPP	533-74-4	Dazomet	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	16200.000000	Freshwater	Flow Through
OPP	533-74-4	Dazomet	Salvelinus fontinalis	Brook trout	96 hr	LC50	500.000000	Freshwater	Static
OPP	10222-01-2	DBNPA	Americamysis bahia	Mysid	96 hr	LC50	720.000000	Saltwater	Flow Through
OPP	10222-01-2	DBNPA	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	3400.000000	Saltwater	Static
OPP	10222-01-2	DBNPA	Daphnia magna	Water flea	48 hr	EC50	860.000000	Freshwater	Static

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OPP	10222-01-2	DBNPA	Daphnia magna	Water flea	48 hr	EC50	900.000000	Freshwater	Static
OPP	10222-01-2	DBNPA	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1300.000000	Freshwater	Static
OPP	10222-01-2	DBNPA	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2300.000000	Freshwater	Static
OPP	10222-01-2	DBNPA	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1000.000000	Freshwater	Static
OPP	10222-01-2	DBNPA	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2300.000000	Freshwater	Static
OPP	10222-01-2	DBNPA	Pimephales promelas	Fathead minnow	96 hr	LC50	1800.000000	Freshwater	Static
OPP	10222-01-2	DBNPA	Uca pugillator	Fiddler crab	96 hr	LC50	13900.000000	Saltwater	Static
OPP	118-52-5	DCDMH (Glychlor Formulation)	Daphnia magna	Water flea	48 hr	EC50	500.000000	Freshwater	Static
OPP	118-52-5	DCDMH (Glychlor Formulation)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2350.000000	Freshwater	Static
OPP	118-52-5	DCDMH (Glychlor Formulation)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	910.000000	Freshwater	Static
OPP	1861-32-1	DCPA (Dacthal)	Crassostrea virginica	Eastern oyster	96 hr	EC50	620.000000	Saltwater	Flow Through
OPP	1861-32-1	DCPA (Dacthal)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6600.000000	Freshwater	Static
CERC-GED	8003-19-8	D-D Soil Fumigant	Ictalurus punctatus	Channel catfish	96 hr	LC50	4400.000000	Freshwater	Static
CERC-GED	8003-19-8	D-D Soil Fumigant	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	5530.000000	Freshwater	Static
CERC-GED	72-54-8	DDD	Asellus brevicaudus	Aquatic sow bug	96 hr	LC50	16.000000	Freshwater	Static
CERC-GED	72-54-8	DDD	Bufo woodhousei fowleri	Fowlers toad	96 hr	LC50	140.000000	Freshwater	Static
OPP	72-54-8	DDD	Crassostrea virginica	Eastern oyster	96 hr	EC50	25.000000	Saltwater	Flow Through
CERC-GED	72-54-8	DDD	Cypridopsis vidua	Ostracod	48 hr	EC50	45.000000	Freshwater	Static
CERC-GED	72-54-8	DDD	Daphnia magna	Water flea	48 hr	EC50	8.900000	Freshwater	Static
CERC-GED	72-54-8	DDD	Daphnia pulex	Water flea	48 hr	EC50	3.200000	Freshwater	Static
CERC-GED	72-54-8	DDD	Gammarus fasciatus	Scud	96 hr	LC50	0.600000	Freshwater	Static
CERC-GED	72-54-8	DDD	Ictalurus punctatus	Channel catfish	96 hr	LC50	1500.000000	Freshwater	Static
CERC-GED	72-54-8	DDD	Ischnura verticalis	Damselify	96 hr	LC50	34.000000	Freshwater	Static
CERC-GED	72-54-8	DDD	Micropterus salmoides	Largemouth bass	96 hr	LC50	42.000000	Freshwater	Static
CERC-GED	72-54-8	DDD	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	70.000000	Freshwater	Static
CERC-GED	72-54-8	DDD	Palaemonetes kadiakensis	Grass shrimp	96 hr	LC50	2.400000	Freshwater	Static
OPP	72-54-8	DDD	Penaeus duorarum	Pink shrimp	48 hr	LC50	2.400000	Saltwater	Flow Through
CERC-GED	72-54-8	DDD	Pimephales promelas	Fathead minnow	96 hr	LC50	4400.000000	Freshwater	Static
CERC-GED	72-54-8	DDD	Simocephalus serrulatus	Water flea	48 hr	EC50	4.500000	Freshwater	Static
CERC-GED	72-54-8	DDD	Simocephalus serrulatus	Water flea	48 hr	EC50	5.200000	Freshwater	Static
CERC-GED	72-54-8	DDD	Stizostedion vitreum	Walleye	96 hr	LC50	14.000000	Freshwater	Static
CERC-GED	72-55-9	DDE	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	240.000000	Freshwater	Static
CERC-GED	72-55-9	DDE	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	32.000000	Freshwater	Static
CERC-GED	72-55-9	DDE	Salmo salar	Atlantic salmon	96 hr	LC50	96.000000	Freshwater	Static
CERC-GED	50-29-3	DDT	Ameiurus melas	Black bullhead	96 hr	LC50	4.800000	Freshwater	Static
CERC-GED	50-29-3	DDT	Asellus brevicaudus	Aquatic sow bug	96 hr	LC50	4.000000	Freshwater	Static
CERC-GED	50-29-3	DDT	Atherinx variegata	Snipe fly	96 hr	LC50	17.000000	Freshwater	Static
CERC-GED	50-29-3	DDT	Bufo woodhousei fowleri	Fowlers toad	96 hr	LC50	1000.000000	Freshwater	Static
CERC-GED	50-29-3	DDT	Carassius auratus	Goldfish	96 hr	LC50	15.500000	Freshwater	Static
CERC-GED	50-29-3	DDT	Clässsenia sabulosa	Stonefly	96 hr	LC50	3.500000	Freshwater	Static
OPP	50-29-3	DDT	Crassostrea virginica	Eastern oyster	96 hr	EC50	9.000000	Saltwater	Flow Through
CERC-GED	50-29-3	DDT	Cypridopsis vidua	Ostracod	48 hr	LC50	15.000000	Freshwater	Static
CERC-GED	50-29-3	DDT	Cyprinus carpio	Common carp	96 hr	LC50	9.700000	Freshwater	Static
CERC-GED	50-29-3	DDT	Daphnia magna	Water flea	48 hr	EC50	4.700000	Freshwater	Static
CERC-GED	50-29-3	DDT	Daphnia pulex	Water flea	48 hr	EC50	0.360000	Freshwater	Static
CERC-GED	50-29-3	DDT	Ephemera sp.	Mayfly	96 hr	LC50	1.200000	Freshwater	Static
CERC-GED	50-29-3	DDT	Gammarus fasciatus	Scud	96 hr	LC50	3.200000	Freshwater	Static
CERC-GED	50-29-3	DDT	Gammaurus lacustris	Scud	96 hr	LC50	1.000000	Freshwater	Static
CERC-GED	50-29-3	DDT	Hexagenia bilineata	Mayfly	96 hr	LC50	1000.000000	Freshwater	Static
CERC-GED	50-29-3	DDT	Ictalurus punctatus	Channel catfish	96 hr	LC50	6.900000	Freshwater	Static
CERC-GED	50-29-3	DDT	Ictalurus punctatus	Channel catfish	96 hr	LC50	16.000000	Freshwater	Static
CERC-GED	50-29-3	DDT	Ictalurus punctatus	Channel catfish	96 hr	LC50	21.500000	Freshwater	Static
CERC-GED	50-29-3	DDT	Ictalurus punctatus	Channel catfish	96 hr	LC50	22.000000	Freshwater	Static
CERC-GED	50-29-3	DDT	Isoperla sp.	Stonefly	96 hr	LC50	1.200000	Freshwater	Static
CERC-GED	50-29-3	DDT	Lepomis cyanellus	Green sunfish	96 hr	LC50	6.500000	Freshwater	Static
CERC-GED	50-29-3	DDT	Lepomis cyanellus	Green sunfish	96 hr	LC50	10.900000	Freshwater	Static
CERC-GED	50-29-3	DDT	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	8.600000	Freshwater	Static
OPP	50-29-3	DDT	Lepomis microlophus	Redear sunfish	96 hr	LC50	15.000000	Freshwater	Static
CERC-GED	50-29-3	DDT	Micropterus salmoides	Largemouth bass	96 hr	LC50	1.500000	Freshwater	Static
CERC-GED	50-29-3	DDT	Notropis blennius	River shiner	96 hr	LC50	5.800000	Freshwater	Static
CERC-GED	50-29-3	DDT	Oncorhynchus clarkii	Cutthroat trout	96 hr	LC50	5.500000	Freshwater	Static
CERC-GED	50-29-3	DDT	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	4.000000	Freshwater	Static
CERC-GED	50-29-3	DDT	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4.700000	Freshwater	Static

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CERC-GED	50-29-3	DDT	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	8.700000	Freshwater	Static
CERC-GED	50-29-3	DDT	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	11.400000	Freshwater	Static
CERC-GED	50-29-3	DDT	Ophiogomphus sp.	Dragonfly	96 hr	LC50	32.000000	Freshwater	Static
OPP	50-29-3	DDT	Penaeus duorarum	Pink shrimp	48 hr	LC50	0.600000	Saltwater	Flow Through
CERC-GED	50-29-3	DDT	Pentaneura sp.	Midge	96 hr	LC50	1.500000	Freshwater	Static
CERC-GED	50-29-3	DDT	Pimephales promelas	Fathead minnow	96 hr	LC50	12.400000	Freshwater	Static
CERC-GED	50-29-3	DDT	Pomoxis nigromaculatus	Black crappie	96 hr	LC50	5.600000	Freshwater	Static
CERC-GED	50-29-3	DDT	Pseudacris triseriata	Western chorus frog	96 hr	LC50	800.000000	Freshwater	Static
CERC-GED	50-29-3	DDT	Pteronarcella badia	Stonefly	96 hr	LC50	1.900000	Freshwater	Static
CERC-GED	50-29-3	DDT	Pteronarcys californica	Stonefly	96 hr	LC50	7.000000	Freshwater	Static
CERC-GED	50-29-3	DDT	Salmo salar	Atlantic salmon	96 hr	LC50	1.800000	Freshwater	Static
OPP	50-29-3	DDT	Salmo trutta	Brown trout	96 hr	LC50	1.800000	Freshwater	Static
CERC-GED	50-29-3	DDT	Simocephalus serrulatus	Water flea	48 hr	EC50	2.500000	Freshwater	Static
CERC-GED	50-29-3	DDT	Simocephalus serrulatus	Water flea	48 hr	EC50	2.800000	Freshwater	Static
CERC-GED	50-29-3	DDT	Stizostedion vitreum	Walleye	96 hr	LC50	2.900000	Freshwater	Static
CERC-GED	50-29-3	DDT	Tilapia mossambica	Mozambique tilapia	96 hr	LC50	17.000000	Freshwater	Static
CERC-GED	50-29-3	DDT	Tipula sp.	True crane fly	96 hr	LC50	1.600000	Freshwater	Static
CERC-GED	8030-30-6	Dead-X	Daphnia pulex	Water flea	48 hr	LC50	3700.000000	Freshwater	Static
CERC-GED	8030-30-6	Dead-X	Gammarus fasciatus	Scud	96 hr	LC50	800.000000	Freshwater	Static
CERC-GED	8030-30-6	Dead-X	Pteronarcys californica	Stonefly	96 hr	LC50	2300.000000	Freshwater	Static
CERC-GED	8030-30-6	Dead-X	Simocephalus serrulatus	Water flea	48 hr	LC50	7600.000000	Freshwater	Static
OPP	112-30-1	Decanol	Daphnia magna	Water flea	48 hr	EC50	6500.000000	Freshwater	Static
OPP	112-30-1	Decanol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	5050.000000	Freshwater	Static
OPP	78-48-8	DEF (Tribuphos)	Americanysis bahia	Mysid	96 hr	LC50	4.600000	Saltwater	Flow Through
CERC-GED	78-48-8	DEF (Tribuphos)	Americanysis bahia	Mysid	96 hr	LC50	5.800000	Saltwater	Static
OPP	78-48-8	DEF (Tribuphos)	Americanysis bahia	Mysid	96 hr	LC50	11.500000	Saltwater	Flow Through
CERC-GED	78-48-8	DEF (Tribuphos)	Chironomus plumosus	Midge	48 hr	EC50	40.000000	Freshwater	Static
OPP	78-48-8	DEF (Tribuphos)	Crassostrea virginica	Eastern oyster	96 hr	EC50	39.600000	Saltwater	Flow Through
OPP	78-48-8	DEF (Tribuphos)	Crassostrea virginica	Eastern oyster	96 hr	EC50	100.000000	Saltwater	Flow Through
CERC-GED	78-48-8	DEF (Tribuphos)	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	440.000000	Saltwater	Static
CERC-GED	78-48-8	DEF (Tribuphos)	Daphnia magna	Water flea	48 hr	EC50	6.800000	Freshwater	Static
CERC-GED	78-48-8	DEF (Tribuphos)	Gammarus fasciatus	Scud	96 hr	LC50	100.000000	Freshwater	Static
CERC-GED	78-48-8	DEF (Tribuphos)	Gammarus pseudolimnaeus	Scud	96 hr	LC50	27.000000	Freshwater	Static
CERC-GED	78-48-8	DEF (Tribuphos)	Ictalurus punctatus	Channel catfish	96 hr	LC50	1540.000000	Freshwater	Static
CERC-GED	78-48-8	DEF (Tribuphos)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	540.000000	Freshwater	Static
CERC-GED	78-48-8	DEF (Tribuphos)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	570.000000	Freshwater	Static
CERC-GED	78-48-8	DEF (Tribuphos)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	620.000000	Freshwater	Static
OPP	78-48-8	DEF (Tribuphos)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	630.000000	Freshwater	Flow Through
CERC-GED	78-48-8	DEF (Tribuphos)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	640.000000	Freshwater	Static
CERC-GED	78-48-8	DEF (Tribuphos)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	740.000000	Freshwater	Static
CERC-GED	78-48-8	DEF (Tribuphos)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	660.000000	Freshwater	Static
CERC-GED	78-48-8	DEF (Tribuphos)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1000.000000	Freshwater	Static
CERC-GED	78-48-8	DEF (Tribuphos)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1300.000000	Freshwater	Static
OPP	78-48-8	DEF (Tribuphos)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1700.000000	Freshwater	Flow Through
OPP	78-48-8	DEF (Tribuphos)	Palaemonetes pugio	Grass shrimp	96 hr	LC50	22.000000	Saltwater	Flow Through
OPP	78-48-8	DEF (Tribuphos)	Penaeus stylorostis	White shrimp	96 hr	LC50	25.000000	Saltwater	Static
CERC-GED	78-48-8	DEF (Tribuphos)	Pteronarcys californica	Stonefly	96 hr	LC50	2100.000000	Freshwater	Static
OPP	52918-63-5	Deltamethrin	Americanysis bahia	Mysid	96 hr	LC50	0.001700	Saltwater	Static Renewal
OPP	52918-63-5	Deltamethrin	Americanysis bahia	Mysid	96 hr	LC50	0.003700	Saltwater	Static Renewal
OPP	52918-63-5	Deltamethrin	Crassostrea virginica	Eastern oyster	96 hr	EC50	8.200000	Saltwater	Flow Through
OPP	52918-63-5	Deltamethrin	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	0.580000	Saltwater	Flow Through
OPP	52918-63-5	Deltamethrin	Daphnia magna	Water flea	48 hr	EC50	3.500000	Freshwater	Static
OPP	52918-63-5	Deltamethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1.400000	Freshwater	Static
OPP	52918-63-5	Deltamethrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	0.910000	Freshwater	Static
OPP	8065-48-3	Demeton	Carassius auratus	Goldfish	96 hr	LC50	1200.000000	Freshwater	Static
OPP	8065-48-3	Demeton	Cyprinus carpio	Common carp	96 hr	LC50	14300.000000	Freshwater	Static
CERC-GED	8065-48-3	Demeton	Daphnia pulex	Water flea	48 hr	EC50	14.000000	Freshwater	Static
CERC-GED	8065-48-3	Demeton	Gammarus fasciatus	Scud	96 hr	LC50	78.000000	Freshwater	Static
CERC-GED	8065-48-3	Demeton	Ictalurus punctatus	Channel catfish	96 hr	LC50	3700.000000	Freshwater	Static
OPP	8065-48-3	Demeton	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	110.000000	Freshwater	Static
CERC-GED	8065-48-3	Demeton	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	600.000000	Freshwater	Static
OPP	8065-48-3	Demeton	Penaeus duorarum	Pink shrimp	48 hr	LC50	48.000000	Saltwater	Flow Through
OPP	8065-48-3	Demeton	Pimephales promelas	Fathead minnow	96 hr	LC50	2900.000000	Freshwater	Static

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OPP	8065-48-3	Demeton	Poecilia reticulata	Guppy	96 hr	LC50	660.000000	Freshwater	Static
OPP	13684-56-5	Desmedipham	Daphnia magna	Water flea	48 hr	EC50	1880.000000	Freshwater	Static
OPP	13684-56-5	Desmedipham	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6000.000000	Freshwater	Static
OPP	13684-56-5	Desmedipham	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1700.000000	Freshwater	Static
OPP	333-41-5	Diazinon	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	150.000000	Saltwater	Flow Through
OPP	333-41-5	Diazinon	Daphnia magna	Water flea	48 hr	EC50	0.960000	Freshwater	Static
OPP	333-41-5	Diazinon	Daphnia magna	Water flea	48 hr	EC50	0.960000	Freshwater	Static
CERC-GED	333-41-5	Diazinon	Daphnia pulex	Water flea	48 hr	EC50	0.800000	Freshwater	Static
CERC-GED	333-41-5	Diazinon	Gammaurus fasciatus	Scud	96 hr	LC50	0.200000	Freshwater	Static
OPP	333-41-5	Diazinon	Jordanella floridae	Flagfish	96 hr	LC50	1600.000000	Freshwater	Flow Through
OPP	333-41-5	Diazinon	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	136.000000	Freshwater	Static
CERC-GED	333-41-5	Diazinon	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	168.000000	Freshwater	Static
OPP	333-41-5	Diazinon	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	460.000000	Freshwater	Flow Through
CERC-GED	333-41-5	Diazinon	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	90.000000	Freshwater	Static
OPP	333-41-5	Diazinon	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	400.000000	Freshwater	Static
OPP	333-41-5	Diazinon	Penaeus aztecus	Brown shrimp	48 hr	LC50	28.000000	Saltwater	Flow Through
OPP	333-41-5	Diazinon	Pimephales promelas	Fathead minnow	96 hr	LC50	7800.000000	Freshwater	Flow Through
CERC-GED	333-41-5	Diazinon	Pteronarcys californica	Stonefly	96 hr	LC50	25.000000	Freshwater	Static
OPP	333-41-5	Diazinon	Salvelinus fontinalis	Brook trout	96 hr	LC50	770.000000	Freshwater	Flow Through
CERC-GED	333-41-5	Diazinon	Simocephalus serrulatus	Water flea	48 hr	EC50	1.400000	Freshwater	Static
CERC-GED	333-41-5	Diazinon	Simocephalus serrulatus	Water flea	48 hr	EC50	1.800000	Freshwater	Static
OPP	35691-65-7	Dibromodicyanobutane	Americanus bahia	Mysid	96 hr	LC50	2700.000000	Saltwater	Flow Through
OPP	35691-65-7	Dibromodicyanobutane	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	8300.000000	Saltwater	Flow Through
OPP	35691-65-7	Dibromodicyanobutane	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	17000.000000	Saltwater	Static
OPP	35691-65-7	Dibromodicyanobutane	Daphnia magna	Water flea	48 hr	EC50	2200.000000	Freshwater	Static
OPP	35691-65-7	Dibromodicyanobutane	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4100.000000	Freshwater	Static
OPP	35691-65-7	Dibromodicyanobutane	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1750.000000	Freshwater	Static
CERC-GED	1918-00-9	Dicamba (Acid)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	28000.000000	Freshwater	Static
OPP	1194-65-6	Dichlobenil	Americanus bahia	Mysid	96 hr	LC50	2350.000000	Saltwater	Flow Through
CERC-GED	1194-65-6	Dichlobenil	Carassius auratus	Goldfish	96 hr	LC50	7830.000000	Freshwater	Static
OPP	1194-65-6	Dichlobenil	Crassostrea virginica	Eastern oyster	96 hr	EC50	1630.000000	Saltwater	Flow Through
OPP	1194-65-6	Dichlobenil	Crassostrea virginica	Eastern oyster	96 hr	EC50	2500.000000	Saltwater	Flow Through
OPP	1194-65-6	Dichlobenil	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	12700.000000	Saltwater	Flow Through
OPP	1194-65-6	Dichlobenil	Daphnia magna	Water flea	48 hr	EC50	6200.000000	Freshwater	Static
CERC-GED	1194-65-6	Dichlobenil	Lepomis cyanellus	Green sunfish	96 hr	LC50	5700.000000	Freshwater	Static
CERC-GED	1194-65-6	Dichlobenil	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	8310.000000	Freshwater	Static
CERC-GED	1194-65-6	Dichlobenil	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6260.000000	Freshwater	Static
CERC-GED	1194-65-6	Dichlobenil	Pimephales promelas	Fathead minnow	96 hr	LC50	6000.000000	Freshwater	Static
CERC-GED	97-17-6	Dichlofenthion	Gammaurus fasciatus	Scud	96 hr	LC50	110.000000	Freshwater	Static
CERC-GED	97-17-6	Dichlofenthion	Gammaurus lacustris	Scud	96 hr	LC50	56.000000	Freshwater	Static
CERC-GED	97-17-6	Dichlofenthion	Ictalurus punctatus	Channel catfish	96 hr	LC50	4800.000000	Freshwater	Static
CERC-GED	97-17-6	Dichlofenthion	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1230.000000	Freshwater	Static
CERC-GED	97-17-6	Dichlofenthion	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	640.000000	Freshwater	Static
CERC-GED	97-17-6	Dichlofenthion	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1250.000000	Freshwater	Static
CERC-GED	97-17-6	Dichlofenthion	Pteronarcys californica	Stonefly	96 hr	LC50	4.100000	Freshwater	Static
OPP	64359-81-5	Dichloro-2-n-octyl-3(2H)-isothiazolone	Americanus bahia	Mysid	96 hr	LC50	4.700000	Saltwater	Flow Through
OPP	64359-81-5	Dichloro-2-n-octyl-3(2H)-isothiazolone	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	20.500000	Saltwater	Flow Through
OPP	64359-81-5	Dichloro-2-n-octyl-3(2H)-isothiazolone	Daphnia magna	Water flea	48 hr	EC50	5.220000	Freshwater	Flow Through
OPP	64359-81-5	Dichloro-2-n-octyl-3(2H)-isothiazolone	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	14.000000	Freshwater	Flow Through
OPP	64359-81-5	Dichloro-2-n-octyl-3(2H)-isothiazolone	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2.700000	Freshwater	Flow Through
OPP	62-73-7	Dichlorvos	Americanus bahia	Mysid	96 hr	LC50	19.000000	Saltwater	Flow Through
OPP	62-73-7	Dichlorvos	Crassostrea virginica	Eastern oyster	96 hr	EC50	89100.000000	Saltwater	Flow Through
OPP	62-73-7	Dichlorvos	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	7350.000000	Saltwater	Flow Through
CERC-GED	62-73-7	Dichlorvos	Daphnia pulex	Water flea	48 hr	EC50	0.070000	Freshwater	Static
OPP	62-73-7	Dichlorvos	Fundulus heteroclitus	Mummichog	96 hr	LC50	3200.000000	Saltwater	Static
OPP	62-73-7	Dichlorvos	Fundulus majalis	Striped killifish	96 hr	LC50	2300.000000	Saltwater	Static
OPP	62-73-7	Dichlorvos	Gammaurus fasciatus	Scud	96 hr	LC50	400000.000000	Freshwater	Static
CERC-GED	62-73-7	Dichlorvos	Gammaurus lacustris	Scud	96 hr	LC50	0.500000	Freshwater	Static
CERC-GED	62-73-7	Dichlorvos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	869.000000	Freshwater	Static
OPP	62-73-7	Dichlorvos	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	170.000000	Freshwater	Static
OPP	62-73-7	Dichlorvos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	100.000000	Freshwater	Static
OPP	62-73-7	Dichlorvos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	100.000000	Freshwater	Static
OPP	62-73-7	Dichlorvos	Penaeus duorarum	Pink shrimp	48 hr	LC50	24.000000	Saltwater	Flow Through

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**Appendix 1**  
**Final Acute Toxicity Database**

CERC-GED	62-73-7	Dichlorvos	Pimephales promelas	Fathead minnow	96 hr	LC50	11600.000000	Freshwater	Static
CERC-GED	62-73-7	Dichlorvos	Pteronarcys californica	Stonefly	96 hr	LC50	0.100000	Freshwater	Static
OPP	62-73-7	Dichlorvos	Salvelinus namaycush	Lake trout	96 hr	LC50	183.000000	Freshwater	Static
CERC-GED	62-73-7	Dichlorvos	Simocephalus serrulatus	Water flea	48 hr	EC50	0.260000	Freshwater	Static
CERC-GED	62-73-7	Dichlorvos	Simocephalus serrulatus	Water flea	48 hr	EC50	0.280000	Freshwater	Static
OPP	62-73-7	Dichlorvos	Syngnathus fuscus	Northern pipefish	96 hr	LC50	2200.000000	Saltwater	Static
OPP	51338-27-3	Diclofop-methyl	Daphnia magna	Water flea	48 hr	EC50	230.000000	Freshwater	Static
OPP	51338-27-3	Diclofop-methyl	Daphnia magna	Water flea	48 hr	EC50	540.000000	Freshwater	Static
OPP	51338-27-3	Diclofop-methyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	150.000000	Freshwater	Static
OPP	51338-27-3	Diclofop-methyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	240.000000	Freshwater	Static
OPP	51338-27-3	Diclofop-methyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	290.000000	Freshwater	Static
OPP	51338-27-3	Diclofop-methyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	310.000000	Freshwater	Static
CERC-GED	51338-27-3	Diclofop-methyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	540.000000	Freshwater	Static
OPP	51338-27-3	Diclofop-methyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	170.000000	Freshwater	Static
OPP	51338-27-3	Diclofop-methyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	230.000000	Freshwater	Static
CERC-GED	51338-27-3	Diclofop-methyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	250.000000	Freshwater	Static
OPP	51338-27-3	Diclofop-methyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	540.000000	Freshwater	Static
OPP	51338-27-3	Diclofop-methyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	620.000000	Freshwater	Static
OPP	51338-27-3	Diclofop-methyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1800.000000	Freshwater	Static
OPP	99-30-9	Dicloran (DCNA)	Carassius auratus	Goldfish	96 hr	LC50	32000.000000	Freshwater	Static
OPP	99-30-9	Dicloran (DCNA)	Daphnia magna	Water flea	48 hr	EC50	2070.000000	Freshwater	Static
OPP	99-30-9	Dicloran (DCNA)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1080.000000	Freshwater	Static
OPP	99-30-9	Dicloran (DCNA)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	560.000000	Freshwater	Static
OPP	99-30-9	Dicloran (DCNA)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1600.000000	Freshwater	Static
OPP	145701-21-9	Diclosulam (XR-564, XDE-564)	Daphnia magna	Water flea	48 hr	EC50	72000.000000	Freshwater	Static
OPP	115-32-2	Dicofol	Americamysis bahia	Mysid	96 hr	LC50	60.000000	Saltwater	Static
OPP	115-32-2	Dicofol	Crassostrea virginica	Eastern oyster	96 hr	EC50	21.000000	Saltwater	Flow Through
CERC-GED	115-32-2	Dicofol	Ictalurus punctatus	Channel catfish	96 hr	LC50	360.000000	Freshwater	Static
OPP	115-32-2	Dicofol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	510.000000	Freshwater	Static
CERC-GED	115-32-2	Dicofol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	520.000000	Freshwater	Static
OPP	115-32-2	Dicofol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	124.000000	Freshwater	Flow Through
OPP	115-32-2	Dicofol	Penaeus duorarum	Pink shrimp	48 hr	LC50	52.000000	Saltwater	Flow Through
OPP	115-32-2	Dicofol	Pimephales promelas	Fathead minnow	96 hr	LC50	509.000000	Freshwater	Flow Through
CERC-GED	115-32-2	Dicofol	Pteronarcys californica	Stonefly	96 hr	LC50	650.000000	Freshwater	Static
CERC-GED	141-66-2	Dicrotophos	Gammarus fasciatus	Scud	96 hr	LC50	2600.000000	Freshwater	Static
CERC-GED	141-66-2	Dicrotophos	Gammarus lacustris	Scud	96 hr	LC50	540.000000	Freshwater	Static
CERC-GED	141-66-2	Dicrotophos	Ictalurus punctatus	Channel catfish	96 hr	LC50	7660.000000	Freshwater	Static
CERC-GED	141-66-2	Dicrotophos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	24200.000000	Freshwater	Static
CERC-GED	141-66-2	Dicrotophos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6300.000000	Freshwater	Static
OPP	141-66-2	Dicrotophos	Orconectes naias	Crayfish	96 hr	LC50	5500.000000	Freshwater	Static
CERC-GED	141-66-2	Dicrotophos	Simocephalus serrulatus	Water flea	48 hr	EC50	270.000000	Freshwater	Static
CERC-GED	60-57-1	Dieldrin	Asellus brevicaudus	Aquatic sow bug	96 hr	LC50	5.000000	Freshwater	Static
CERC-GED	60-57-1	Dieldrin	Bufo woodhousei fowleri	Fowler's toad	96 hr	LC50	150.000000	Freshwater	Static
OPP	60-57-1	Dieldrin	Callinectes sapidus	Blue crab	48 hr	LC50	240.000000	Saltwater	Flow Through
CERC-GED	60-57-1	Dieldrin	Carassius auratus	Goldfish	96 hr	LC50	1.800000	Freshwater	Static
CERC-GED	60-57-1	Dieldrin	Claassenia sabulosa	Stonefly	96 hr	LC50	0.580000	Freshwater	Static
OPP	60-57-1	Dieldrin	Crassostrea virginica	Eastern oyster	96 hr	EC50	15.000000	Saltwater	Flow Through
CERC-GED	60-57-1	Dieldrin	Daphnia pulex	Water flea	48 hr	EC50	250.000000	Freshwater	Static
CERC-GED	60-57-1	Dieldrin	Gammarus fasciatus	Scud	96 hr	LC50	640.000000	Freshwater	Static
CERC-GED	60-57-1	Dieldrin	Ictalurus punctatus	Channel catfish	96 hr	LC50	4.500000	Freshwater	Static
CERC-GED	60-57-1	Dieldrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3.100000	Freshwater	Static
CERC-GED	60-57-1	Dieldrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	14.500000	Freshwater	Static
CERC-GED	60-57-1	Dieldrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1.200000	Freshwater	Static
CERC-GED	60-57-1	Dieldrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1.400000	Freshwater	Static
CERC-GED	60-57-1	Dieldrin	Orconectes naias	Crayfish	96 hr	LC50	740.000000	Freshwater	Static
OPP	60-57-1	Dieldrin	Palaemonetes pugio	Grass shrimp	96 hr	LC50	8.600000	Saltwater	Flow Through
CERC-GED	60-57-1	Dieldrin	Pimephales promelas	Fathead minnow	96 hr	LC50	3.800000	Freshwater	Static
CERC-GED	60-57-1	Dieldrin	Pseudacris triseriata	Western chorus frog	96 hr	LC50	100.000000	Freshwater	Static
CERC-GED	60-57-1	Dieldrin	Pteronarcella badia	Stonefly	96 hr	LC50	0.500000	Freshwater	Static
CERC-GED	60-57-1	Dieldrin	Pteronarcys californica	Stonefly	96 hr	LC50	0.500000	Freshwater	Static
CERC-GED	60-57-1	Dieldrin	Simocephalus serrulatus	Water flea	48 hr	EC50	190.000000	Freshwater	Static
CERC-GED	60-57-1	Dieldrin	Simocephalus serrulatus	Water flea	48 hr	EC50	240.000000	Freshwater	Static
CERC-GED	60-57-1	Dieldrin	Tilapia mossambica	Mozambique tilapia	96 hr	LC50	9.200000	Freshwater	Static

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**Appendix 1**  
**Final Acute Toxicity Database**

OPP	2227-17-0	Dienochlor	Daphnia magna	Water flea	48 hr	EC50	1200.000000	Freshwater	Static
OPP	2227-17-0	Dienochlor	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	600.000000	Freshwater	Static
OPP	2227-17-0	Dienochlor	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	50.000000	Freshwater	Static
OPP	119446-68-3	Difenoconazole	Americamysis bahia	Mysid	96 hr	LC50	150.000000	Saltwater	Flow Through
OPP	119446-68-3	Difenoconazole	Crassostrea virginica	Eastern oyster	96 hr	EC50	420.000000	Saltwater	Flow Through
OPP	119446-68-3	Difenoconazole	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	1.100000	Saltwater	Flow Through
OPP	119446-68-3	Difenoconazole	Daphnia magna	Water flea	48 hr	EC50	770.000000	Freshwater	Static
OPP	119446-68-3	Difenoconazole	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1200.000000	Freshwater	Static
OPP	119446-68-3	Difenoconazole	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	810.000000	Freshwater	Static
OPP	119446-68-3	Difenoconazole	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1060.000000	Freshwater	Flow Through
OPP	43222-48-6	Difenzquat	Daphnia magna	Water flea	48 hr	EC50	2530.000000	Freshwater	Static
OPP	43222-48-6	Difenzquat	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	46500.000000	Freshwater	Static
OPP	43222-48-6	Difenzquat	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	58000.000000	Freshwater	Static
OPP	43222-48-6	Difenzquat	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	668000.000000	Freshwater	Static
OPP	43222-48-6	Difenzquat	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	711000.000000	Freshwater	Static
OPP	104653-34-1	Difethialone	Daphnia magna	Water flea	48 hr	EC50	4.400000	Freshwater	Static
OPP	104653-34-1	Difethialone	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	75.000000	Freshwater	Static
OPP	104653-34-1	Difethialone	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	51.000000	Freshwater	Static
OPP	35367-38-5	Diflubenzuron	Americamysis bahia	Mysid	96 hr	LC50	2.100000	Saltwater	Flow Through
OPP	35367-38-5	Diflubenzuron	Daphnia magna	Water flea	48 hr	EC50	3.700000	Freshwater	Static
OPP	35367-38-5	Diflubenzuron	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	135000.000000	Freshwater	Flow Through
OPP	35367-38-5	Diflubenzuron	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	140000.000000	Freshwater	Flow Through
OPP	35367-38-5	Diflubenzuron	Palaemonetes pugio	Grass shrimp	96 hr	LC50	0.640000	Saltwater	Static
OPP	109293-98-2	Diflufenopyr-sodium	Americamysis bahia	Mysid	96 hr	LC50	18900.000000	Saltwater	Static
OPP	109293-98-2	Diflufenopyr-sodium	Daphnia magna	Water flea	48 hr	EC50	15000.000000	Freshwater	Static
OPP	109293-98-2	Diflufenopyr-sodium	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	106000.000000	Freshwater	Static
OPP	20018-09-1	Diodomethyl p-tolyl sulfone	Daphnia magna	Water flea	48 hr	EC50	71.000000	Freshwater	Static
OPP	20018-09-1	Diodomethyl p-tolyl sulfone	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	750.000000	Freshwater	Static
OPP	20018-09-1	Diodomethyl p-tolyl sulfone	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	130.000000	Freshwater	Static
CERC-GED	8027-00-7	Dilan	Gammarus lacustris	Scud	96 hr	LC50	350.000000	Freshwater	Static
CERC-GED	8027-00-7	Dilan	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	14.000000	Freshwater	Static
CERC-GED	8027-00-7	Dilan	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	34.000000	Freshwater	Static
OPP	87674-68-8	Dimethenamid	Americamysis bahia	Mysid	96 hr	LC50	4800.000000	Saltwater	Static
OPP	87674-68-8	Dimethenamid	Crassostrea virginica	Eastern oyster	96 hr	EC50	5000.000000	Saltwater	Flow Through
OPP	87674-68-8	Dimethenamid	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	7200.000000	Saltwater	Static
OPP	87674-68-8	Dimethenamid	Daphnia magna	Water flea	48 hr	EC50	16000.000000	Freshwater	Static
OPP	87674-68-8	Dimethenamid	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6400.000000	Freshwater	Static
OPP	87674-68-8	Dimethenamid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2600.000000	Freshwater	Static
OPP	163515-14-8	Dimethenamid - (S)-Dimethenamid	Americamysis bahia	Mysid	96 hr	LC50	3200.000000	Saltwater	Flow Through
OPP	163515-14-8	Dimethenamid - (S)-Dimethenamid	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	12000.000000	Saltwater	Flow Through
OPP	163515-14-8	Dimethenamid - (S)-Dimethenamid	Daphnia magna	Water flea	48 hr	EC50	12000.000000	Freshwater	Flow Through
OPP	163515-14-8	Dimethenamid - (S)-Dimethenamid	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	10000.000000	Freshwater	Flow Through
OPP	163515-14-8	Dimethenamid - (S)-Dimethenamid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6300.000000	Freshwater	Flow Through
OPP	55290-64-7	Dimethepin	Americamysis bahia	Mysid	96 hr	LC50	13900.000000	Saltwater	Flow Through
OPP	55290-64-7	Dimethepin	Crassostrea virginica	Eastern oyster	96 hr	EC50	12400.000000	Saltwater	Flow Through
OPP	55290-64-7	Dimethepin	Crassostrea virginica	Eastern oyster	96 hr	EC50	18600.000000	Saltwater	Flow Through
OPP	55290-64-7	Dimethepin	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	17800.000000	Saltwater	Flow Through
OPP	55290-64-7	Dimethepin	Daphnia magna	Water flea	48 hr	EC50	21300.000000	Freshwater	Flow Through
OPP	55290-64-7	Dimethepin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	20900.000000	Freshwater	Flow Through
OPP	55290-64-7	Dimethepin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	56000.000000	Freshwater	Flow Through
OPP	60-51-5	Dimethoate	Americamysis bahia	Mysid	96 hr	LC50	15000.000000	Saltwater	Flow Through
OPP	60-51-5	Dimethoate	Crassostrea virginica	Eastern oyster	96 hr	EC50	113000.000000	Saltwater	Flow Through
CERC-GED	60-51-5	Dimethoate	Gammarus lacustris	Scud	96 hr	LC50	200.000000	Freshwater	Static
CERC-GED	60-51-5	Dimethoate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6200.000000	Freshwater	Static
OPP	60-51-5	Dimethoate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	7500.000000	Freshwater	Static
OPP	110488-70-5	Dimethomorph	Americamysis bahia	Mysid	96 hr	LC50	33000.000000	Saltwater	Flow Through
OPP	110488-70-5	Dimethomorph	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6200.000000	Freshwater	Static
CERC-GED	70-38-2	Dimethrin	Ictalurus punctatus	Channel catfish	96 hr	LC50	1140.000000	Freshwater	Static
CERC-GED	70-38-2	Dimethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	57.900000	Freshwater	Static
CERC-GED	70-38-2	Dimethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	85.000000	Freshwater	Static
CERC-GED	70-38-2	Dimethrin	Perca flavescens	Yellow perch	96 hr	LC50	28.000000	Freshwater	Static
CERC-GED	29091-05-2	Dinitramine	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	600.000000	Freshwater	Static
CERC-GED	29091-05-2	Dinitramine	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	820.000000	Freshwater	Static

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CERC-GED	29091-05-2	Dinitramine	<i>Perca flavescens</i>	Yellow perch	96 hr	LC50	1000.000000	Freshwater	Static
CERC-GED	29091-05-2	Dinitramine	<i>Salmo trutta</i>	Brown trout	96 hr	LC50	590.000000	Freshwater	Static
CERC-GED	29091-05-2	Dinitramine	<i>Salvelinus namaycush</i>	Lake trout	96 hr	LC50	920.000000	Freshwater	Static
CERC-GED	973-21-7	Dinobuton	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	14.000000	Freshwater	Static
CERC-GED	39300-45-3	Dinocap	<i>Carassius auratus</i>	Goldfish	96 hr	LC50	33.000000	Freshwater	Static
OPP	39300-45-3	Dinocap	<i>Daphnia magna</i>	Water flea	48 hr	EC50	4.200000	Freshwater	Flow Through
CERC-GED	39300-45-3	Dinocap	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	20.000000	Freshwater	Static
CERC-GED	39300-45-3	Dinocap	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	15.000000	Freshwater	Static
CERC-GED	88-85-7	Dinoceb	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	67.000000	Freshwater	Static
CERC-GED	88-85-7	Dinoceb	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	71.000000	Freshwater	Static
CERC-GED	88-85-7	Dinoceb	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	130.000000	Freshwater	Static
OPP	88-85-7	Dinoceb	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	152.000000	Freshwater	Flow Through
CERC-GED	88-85-7	Dinoceb	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	550.000000	Freshwater	Static
CERC-GED	88-85-7	Dinoceb	<i>Salvelinus namaycush</i>	Lake trout	96 hr	LC50	44.000000	Freshwater	Static
CERC-GED	88-85-7	Dinoceb	<i>Salvelinus namaycush</i>	Lake trout	96 hr	LC50	77.000000	Freshwater	Static
OPP	88-85-7	Dinoceb	<i>Salvelinus namaycush</i>	Lake trout	96 hr	LC50	79.000000	Freshwater	Flow Through
CERC-GED	88-85-7	Dinoceb	<i>Salvelinus namaycush</i>	Lake trout	96 hr	LC50	280.000000	Freshwater	Static
CERC-GED	78-34-2	Dioxathion	<i>Daphnia magna</i>	Water flea	48 hr	EC50	0.350000	Freshwater	Static
CERC-GED	78-34-2	Dioxathion	<i>Gammarus fasciatus</i>	Scud	96 hr	LC50	8.600000	Freshwater	Static
CERC-GED	78-34-2	Dioxathion	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	12.000000	Freshwater	Static
OPP	82-66-6	Diphacinone	<i>Daphnia magna</i>	Water flea	48 hr	EC50	1800.000000	Freshwater	Flow Through
OPP	82-66-6	Diphacinone	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	2090.000000	Freshwater	Static
OPP	82-66-6	Diphacinone	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	7610.000000	Freshwater	Static
OPP	82-66-6	Diphacinone	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	2820.000000	Freshwater	Static
CERC-GED	957-51-7	Diphenamid	<i>Carassius auratus</i>	Goldfish	96 hr	LC50	53300.000000	Freshwater	Static
CERC-GED	957-51-7	Diphenamid	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	48000.000000	Freshwater	Static
OPP	136-45-8	Dipropyl isocinchomeronate	<i>Daphnia magna</i>	Water flea	48 hr	EC50	18000.000000	Freshwater	Flow Through
OPP	136-45-8	Dipropyl isocinchomeronate	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	440.000000	Freshwater	Flow Through
OPP	136-45-8	Dipropyl isocinchomeronate	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1000.000000	Freshwater	Flow Through
OPP	298-04-4	Disulfoton	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	100.000000	Saltwater	Flow Through
OPP	298-04-4	Disulfoton	<i>Carassius auratus</i>	Goldfish	96 hr	LC50	7200.000000	Freshwater	Static
OPP	298-04-4	Disulfoton	<i>Crassostrea virginica</i>	Eastern oyster	96 hr	EC50	720.000000	Saltwater	Flow Through
OPP	298-04-4	Disulfoton	<i>Crassostrea virginica</i>	Eastern oyster	96 hr	EC50	720.000000	Saltwater	Flow Through
OPP	298-04-4	Disulfoton	<i>Cyprinodon variegatus</i>	Sheepshead minnow	96 hr	LC50	1000.000000	Saltwater	Flow Through
OPP	298-04-4	Disulfoton	<i>Daphnia magna</i>	Water flea	48 hr	EC50	13.000000	Freshwater	Static
OPP	298-04-4	Disulfoton	<i>Gammarus fasciatus</i>	Scud	96 hr	LC50	27.000000	Freshwater	Static
CERC-GED	298-04-4	Disulfoton	<i>Gammarus fasciatus</i>	Scud	96 hr	LC50	52.000000	Freshwater	Static
CERC-GED	298-04-4	Disulfoton	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	4700.000000	Freshwater	Static
OPP	298-04-4	Disulfoton	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	39.000000	Freshwater	Static
CERC-GED	298-04-4	Disulfoton	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1850.000000	Freshwater	Static
OPP	298-04-4	Disulfoton	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	3000.000000	Freshwater	Static
OPP	298-04-4	Disulfoton	<i>Penaeus aztecus</i>	Brown shrimp	48 hr	LC50	15.000000	Saltwater	Static
CERC-GED	298-04-4	Disulfoton	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	4300.000000	Freshwater	Static
OPP	298-04-4	Disulfoton	<i>Poecilia reticulata</i>	Guppy	96 hr	LC50	280.000000	Freshwater	Static
CERC-GED	298-04-4	Disulfoton	<i>Pteronarcys californica</i>	Stonefly	96 hr	LC50	5.000000	Freshwater	Static
OPP	298-04-4	Disulfoton sulfoxide	<i>Cyprinodon variegatus</i>	Sheepshead minnow	96 hr	LC50	11300.000000	Saltwater	Static
CERC-GED	3347-22-6	Dithianon	<i>Carassius auratus</i>	Goldfish	96 hr	LC50	150.000000	Freshwater	Static
CERC-GED	3347-22-6	Dithianon	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	165.000000	Freshwater	Static
OPP	1192-52-5	Dithio-3-one,4,5-dichloro	<i>Daphnia magna</i>	Water flea	48 hr	EC50	11.000000	Freshwater	Flow Through
OPP	1192-52-5	Dithio-3-one,4,5-dichloro	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	18.000000	Freshwater	Flow Through
OPP	1192-52-5	Dithio-3-one,4,5-dichloro	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	14.000000	Freshwater	Flow Through
OPP	97886-45-8	Dithiopyr	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	580.000000	Saltwater	Flow Through
OPP	97886-45-8	Dithiopyr	<i>Crassostrea virginica</i>	Eastern oyster	96 hr	EC50	168.000000	Saltwater	Flow Through
OPP	97886-45-8	Dithiopyr	<i>Daphnia magna</i>	Water flea	48 hr	EC50	17000.000000	Freshwater	Static
OPP	97886-45-8	Dithiopyr	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	470.000000	Freshwater	Static
OPP	97886-45-8	Dithiopyr	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	460.000000	Freshwater	Static
OPP	330-54-1	Diuron	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	1100.000000	Saltwater	Static
OPP	330-54-1	Diuron	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	1200.000000	Saltwater	Static
CERC-GED	330-54-1	Diuron	<i>Asellus brevicaudus</i>	Aquatic sow bug	96 hr	LC50	15500.000000	Freshwater	Static
OPP	330-54-1	Diuron	<i>Crassostrea virginica</i>	Eastern oyster	96 hr	EC50	1800.000000	Saltwater	Flow Through
OPP	330-54-1	Diuron	<i>Crassostrea virginica</i>	Eastern oyster	96 hr	EC50	4800.000000	Saltwater	Flow Through
OPP	330-54-1	Diuron	<i>Cyprinodon variegatus</i>	Sheepshead minnow	96 hr	LC50	6700.000000	Saltwater	Static
CERC-GED	330-54-1	Diuron	<i>Daphnia pulex</i>	Water flea	48 hr	EC50	1400.000000	Freshwater	Static

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**Appendix 1**  
**Final Acute Toxicity Database**

CERC-GED	330-54-1	Diuron	Gammarus fasciatus	Scud	96 hr	LC50	160.000000	Freshwater	Static
OPP	330-54-1	Diuron	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3200.000000	Freshwater	Static
CERC-GED	330-54-1	Diuron	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	8200.000000	Freshwater	Static
CERC-GED	330-54-1	Diuron	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	1400.000000	Freshwater	Static
CERC-GED	330-54-1	Diuron	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	1500.000000	Freshwater	Static
CERC-GED	330-54-1	Diuron	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	1700.000000	Freshwater	Static
CERC-GED	330-54-1	Diuron	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	1900.000000	Freshwater	Flow Through
OPP	330-54-1	Diuron	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1950.000000	Freshwater	Static
CERC-GED	330-54-1	Diuron	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3500.000000	Freshwater	Static
CERC-GED	330-54-1	Diuron	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4900.000000	Freshwater	Static
CERC-GED	330-54-1	Diuron	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6200.000000	Freshwater	Static
OPP	330-54-1	Diuron	Pimephales promelas	Fathead minnow	96 hr	LC50	14200.000000	Freshwater	Static
CERC-GED	330-54-1	Diuron	Pteronarcys californica	Stonefly	96 hr	LC50	1200.000000	Freshwater	Static
CERC-GED	330-54-1	Diuron	Salvelinus namaycush	Lake trout	96 hr	LC50	1800.000000	Freshwater	Static
CERC-GED	330-54-1	Diuron	Salvelinus namaycush	Lake trout	96 hr	LC50	2400.000000	Freshwater	Static
CERC-GED	330-54-1	Diuron	Salvelinus namaycush	Lake trout	96 hr	LC50	2700.000000	Freshwater	Static
CERC-GED	330-54-1	Diuron	Simocephalus serrulatus	Water flea	48 hr	EC50	2000.000000	Freshwater	Static
CERC-GED	534-52-1	DNOC	Daphnia pulex	Water flea	48 hr	EC50	145.000000	Freshwater	Static
CERC-GED	534-52-1	DNOC	Gammarus fasciatus	Scud	96 hr	LC50	1100.000000	Freshwater	Static
CERC-GED	534-52-1	DNOC	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	360.000000	Freshwater	Static
CERC-GED	534-52-1	DNOC	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	66.000000	Freshwater	Static
CERC-GED	534-52-1	DNOC	Pteronarcys californica	Stonefly	96 hr	LC50	320.000000	Freshwater	Static
OPP	2439-10-3	Dodine	Daphnia magna	Water flea	48 hr	EC50	17.800000	Freshwater	Flow Through
OPP	2439-10-3	Dodine	Daphnia magna	Water flea	48 hr	EC50	86.000000	Freshwater	Static
CERC-GED	2439-10-3	Dodine	Gammarus fasciatus	Scud	96 hr	LC50	1100.000000	Freshwater	Static
OPP	2439-10-3	Dodine	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	860.000000	Freshwater	Static
OPP	2439-10-3	Dodine	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	570.000000	Freshwater	Static
OPP	4080-31-3	Dowicil	Daphnia magna	Water flea	48 hr	EC50	40000.000000	Freshwater	Static
OPP	4080-31-3	Dowicil	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	20500.000000	Freshwater	Static
OPP	4080-31-3	Dowicil	Pimephales promelas	Fathead minnow	96 hr	LC50	340000.000000	Freshwater	Static
OPP	36362-09-1	DTEA	Daphnia magna	Water flea	48 hr	EC50	36.000000	Freshwater	Static Renewal
OPP	36362-09-1	DTEA	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	770.000000	Freshwater	Static
OPP	36362-09-1	DTEA	Pimephales promelas	Fathead minnow	96 hr	LC50	220.000000	Freshwater	Static
OPP	Unknown	Ecolyst	Americanus bahia	Mysid	96 hr	LC50	20000.000000	Saltwater	Flow Through
OPP	Unknown	Ecolyst	Crassostrea virginica	Eastern oyster	96 hr	EC50	7000.000000	Saltwater	Flow Through
OPP	Unknown	Ecolyst	Daphnia magna	Water flea	48 hr	EC50	24000.000000	Freshwater	Flow Through
OPP	Unknown	Ecolyst	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	12600.000000	Freshwater	Flow Through
OPP	Unknown	Ecolyst	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6700.000000	Freshwater	Flow Through
OPP	137512-74-4	Emamectin benzoate	Americanus bahia	Mysid	96 hr	EC50	0.040000	Saltwater	Flow Through
OPP	137512-74-4	Emamectin benzoate	Crassostrea virginica	Eastern oyster	96 hr	EC50	490.000000	Saltwater	Flow Through
OPP	137512-74-4	Emamectin benzoate	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	1430.000000	Saltwater	Flow Through
OPP	137512-74-4	Emamectin benzoate	Daphnia magna	Water flea	48 hr	EC50	1.000000	Freshwater	Flow Through
OPP	137512-74-4	Emamectin benzoate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	180.000000	Freshwater	Flow Through
OPP	137512-74-4	Emamectin benzoate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	174.000000	Freshwater	Flow Through
OPP	137512-74-4	Emamectin benzoate	Pimephales promelas	Fathead minnow	96 hr	LC50	194.000000	Freshwater	Flow Through
CERC-GED	Unknown	Emcol AD-410	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	9000.000000	Freshwater	Static
OPP	115-29-7	Endosulfan	Callinectes sapidus	Blue crab	48 hr	LC50	19.000000	Saltwater	Flow Through
OPP	115-29-7	Endosulfan	Crassostrea virginica	Eastern oyster	96 hr	EC50	42.000000	Saltwater	Flow Through
ECOTOX	115-29-7	Endosulfan	Daphnia magna	Water flea	48 hr	LC50	158.000000	Freshwater	Static
OPP	115-29-7	Endosulfan	Daphnia magna	Water flea	48 hr	EC50	166.000000	Freshwater	Static
ECOTOX	115-29-7	Endosulfan	Daphnia magna	Water flea	48 hr	LC50	218.000000	Freshwater	Static
ECOTOX	115-29-7	Endosulfan	Daphnia magna	Water flea	48 hr	LC50	266.000000	Freshwater	Static
ECOTOX	115-29-7	Endosulfan	Daphnia magna	Water flea	48 hr	LC50	282.000000	Freshwater	Static
ECOTOX	115-29-7	Endosulfan	Daphnia magna	Water flea	48 hr	LC50	378.000000	Freshwater	Static
ECOTOX	115-29-7	Endosulfan	Daphnia magna	Water flea	48 hr	LC50	740.000000	Freshwater	Static
CERC-GED	115-29-7	Endosulfan	Gammaurus fasciatus	Scud	96 hr	LC50	6.000000	Freshwater	Static
CERC-GED	115-29-7	Endosulfan	Gammaurus lacustris	Scud	96 hr	LC50	5.800000	Freshwater	Static
CERC-GED	115-29-7	Endosulfan	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1.200000	Freshwater	Static
OPP	115-29-7	Endosulfan	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1.700000	Freshwater	Static
OPP	115-29-7	Endosulfan	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3.300000	Freshwater	Static
OPP	115-29-7	Endosulfan	Morone saxatilis	Striped bass	96 hr	LC50	0.100000	Not Reported	Flow Through
OPP	115-29-7	Endosulfan	Mugil cephalus	Striped mullet	96 hr	LC50	0.380000	Saltwater	Flow Through
ECOTOX	115-29-7	Endosulfan	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	0.260000	Freshwater	Flow Through

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**Appendix 1**  
**Final Acute Toxicity Database**

ECOTOX	115-29-7	Endosulfan	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	0.410000	Freshwater	Flow Through
ECOTOX	115-29-7	Endosulfan	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	0.630000	Freshwater	Static
OPP	115-29-7	Endosulfan	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	0.830000	Freshwater	Static
ECOTOX	115-29-7	Endosulfan	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1.210000	Freshwater	Static
ECOTOX	115-29-7	Endosulfan	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1.300000	Freshwater	Static
CERC-GED	115-29-7	Endosulfan	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1.400000	Freshwater	Static
OPP	115-29-7	Endosulfan	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1.500000	Freshwater	Static
OPP	115-29-7	Endosulfan	Palaemonetes pugio	Grass shrimp	96 hr	LC50	1.300000	Saltwater	Flow Through
ECOTOX	115-29-7	Endosulfan	Pimephales promelas	Fathead minnow	96 hr	LC50	0.800000	Freshwater	Flow Through
ECOTOX	115-29-7	Endosulfan	Pimephales promelas	Fathead minnow	96 hr	LC50	0.810000	Freshwater	Flow Through
ECOTOX	115-29-7	Endosulfan	Pimephales promelas	Fathead minnow	96 hr	LC50	0.970000	Freshwater	Static
ECOTOX	115-29-7	Endosulfan	Pimephales promelas	Fathead minnow	96 hr	LC50	1.200000	Freshwater	Flow Through
CERC-GED	115-29-7	Endosulfan	Pimephales promelas	Fathead minnow	96 hr	LC50	1.500000	Freshwater	Static
ECOTOX	115-29-7	Endosulfan	Pimephales promelas	Fathead minnow	96 hr	LC50	1.900000	Freshwater	Static
ECOTOX	115-29-7	Endosulfan	Pimephales promelas	Fathead minnow	96 hr	LC50	1.910000	Freshwater	Flow Through
ECOTOX	115-29-7	Endosulfan	Pimephales promelas	Fathead minnow	96 hr	LC50	3.450000	Freshwater	Static
CERC-GED	115-29-7	Endosulfan	Pteronarcys californica	Stonefly	96 hr	LC50	2.300000	Freshwater	Static
OPP	145-73-3	Endothall	Americanysis bahia	Mysid	96 hr	LC50	39000.000000	Saltwater	Flow Through
OPP	145-73-3	Endothall	Crassostrea virginica	Eastern oyster	96 hr	EC50	43000.000000	Saltwater	Flow Through
CERC-GED	72-20-8	Endrin	Asellus brevicaudus	Aquatic sow bug	96 hr	LC50	1.500000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Atherix variegata	Snipe fly	96 hr	LC50	4.600000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Baetis sp.	Mayfly	96 hr	LC50	0.900000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Bufo woodhousei fowleri	Fowlers toad	96 hr	LC50	120.000000	Freshwater	Static
OPP	72-20-8	Endrin	Callinectes sapidus	Blue crab	48 hr	LC50	15.000000	Saltwater	Flow Through
CERC-GED	72-20-8	Endrin	Claassenia sabulosa	Stonefly	96 hr	LC50	0.076000	Freshwater	Static
OPP	72-20-8	Endrin	Crassostrea virginica	Eastern oyster	96 hr	EC50	33.000000	Saltwater	Flow Through
CERC-GED	72-20-8	Endrin	Cypridopsis vidua	Ostracod	48 hr	EC50	1.800000	Freshwater	Static
OPP	72-20-8	Endrin	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	0.340000	Saltwater	Flow Through
CERC-GED	72-20-8	Endrin	Daphnia magna	Water flea	48 hr	EC50	41.000000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Daphnia magna	Water flea	48 hr	EC50	74.000000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Daphnia pulex	Water flea	48 hr	EC50	20.000000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Gambusia affinis	Mosquitofish	96 hr	LC50	1.100000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Gammaurus fasciatus	Scud	96 hr	LC50	4.300000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Gammaurus lacustris	Scud	96 hr	LC50	3.000000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Hexagenia bilineata	Mayfly	96 hr	LC50	62.000000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Ischnura verticalis	Damselfly	96 hr	LC50	2.400000	Freshwater	Static
ECOTOX	72-20-8	Endrin	Jordanella floridae	Flagfish	96 hr	LC50	0.850000	Freshwater	Flow Through
CERC-GED	72-20-8	Endrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	0.410000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	0.610000	Freshwater	Static
OPP	72-20-8	Endrin	Micropterus salmoides	Largemouth bass	96 hr	LC50	0.310000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	0.089000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	0.750000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1.110000	Freshwater	Static
OPP	72-20-8	Endrin	Palaemonetes pugio	Grass shrimp	96 hr	LC50	0.350000	Saltwater	Flow Through
OPP	72-20-8	Endrin	Palaemonetes pugio	Grass shrimp	96 hr	LC50	0.690000	Saltwater	Flow Through
OPP	72-20-8	Endrin	Palaemonetes pugio	Grass shrimp	96 hr	LC50	1.200000	Saltwater	Flow Through
OPP	72-20-8	Endrin	Penaeus aztecus	Brown shrimp	48 hr	LC50	0.200000	Saltwater	Flow Through
OPP	72-20-8	Endrin	Penaeus duorarum	Pink shrimp	48 hr	LC50	0.200000	Saltwater	Flow Through
CERC-GED	72-20-8	Endrin	Pimephales promelas	Fathead minnow	96 hr	LC50	1.800000	Freshwater	Static
OPP	72-20-8	Endrin	Poecilia latipinna	Sailfin molly	96 hr	LC50	0.630000	Saltwater	Static
CERC-GED	72-20-8	Endrin	Pseudacris triseriata	Western chorus frog	96 hr	LC50	180.000000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Pteronarcella badia	Stonefly	96 hr	LC50	0.540000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Pteronarcys californica	Stonefly	96 hr	LC50	0.250000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Simoccephalus serrulatus	Water flea	48 hr	EC50	26.000000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Simoccephalus serrulatus	Water flea	48 hr	EC50	45.000000	Freshwater	Static
CERC-GED	72-20-8	Endrin	Tipula sp.	True crane fly	96 hr	LC50	12.000000	Freshwater	Static
CERC-GED	2104-64-5	EPN	Americanysis bahia	Mysid	96 hr	LC50	13.000000	Saltwater	Static
OPP	2104-64-5	EPN	Crassostrea virginica	Eastern oyster	96 hr	EC50	130.000000	Saltwater	Flow Through
CERC-GED	2104-64-5	EPN	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	140.000000	Saltwater	Static
CERC-GED	2104-64-5	EPN	Gammaurus fasciatus	Scud	96 hr	LC50	6.800000	Freshwater	Static
OPP	2104-64-5	EPN	Gammaurus lacustris	Scud	96 hr	LC50	15.000000	Freshwater	Static
CERC-GED	2104-64-5	EPN	Ictalurus punctatus	Channel catfish	96 hr	LC50	420.000000	Freshwater	Static
CERC-GED	2104-64-5	EPN	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	110.000000	Freshwater	Static

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**Appendix 1**  
**Final Acute Toxicity Database**

CERC-GED	2104-64-5	EPN	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	160.000000	Freshwater	Static
CERC-GED	2104-64-5	EPN	Penaeus stylostris	White shrimp	96 hr	LC50	4.600000	Saltwater	Static
CERC-GED	2104-64-5	EPN	Pteronarcys californica	Stonefly	96 hr	LC50	7.400000	Freshwater	Static
OPP	759-94-4	EPTC	Daphnia magna	Water flea	48 hr	EC50	6400.000000	Freshwater	Static
OPP	759-94-4	EPTC	Daphnia magna	Water flea	48 hr	EC50	7500.000000	Freshwater	Static
OPP	759-94-4	EPTC	Daphnia magna	Water flea	48 hr	EC50	14150.000000	Freshwater	Static
OPP	759-94-4	EPTC	Gammarus fasciatus	Scud	96 hr	LC50	23000.000000	Freshwater	Static
OPP	759-94-4	EPTC	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	14000.000000	Freshwater	Static
OPP	759-94-4	EPTC	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	26700.000000	Freshwater	Static
CERC-GED	759-94-4	EPTC	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	14200.000000	Freshwater	Static
CERC-GED	759-94-4	EPTC	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	15900.000000	Freshwater	Static
CERC-GED	759-94-4	EPTC	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	17200.000000	Freshwater	Static
OPP	759-94-4	EPTC	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	23300.000000	Freshwater	Flow Through
OPP	759-94-4	EPTC	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	19960.000000	Freshwater	Static
OPP	759-94-4	EPTC	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	21000.000000	Freshwater	Static
CERC-GED	759-94-4	EPTC	Salvelinus namaycush	Lake trout	96 hr	LC50	11500.000000	Freshwater	Static
CERC-GED	759-94-4	EPTC	Salvelinus namaycush	Lake trout	96 hr	LC50	16200.000000	Freshwater	Static
OPP	55283-68-6	Ethafluralin	Americamysis bahia	Mysid	96 hr	LC50	230.000000	Saltwater	Flow Through
OPP	55283-68-6	Ethafluralin	Carassius auratus	Goldfish	96 hr	LC50	260.000000	Freshwater	Static
OPP	55283-68-6	Ethafluralin	Crassostrea virginica	Eastern oyster	96 hr	EC50	102.000000	Saltwater	Flow Through
OPP	55283-68-6	Ethafluralin	Crassostrea virginica	Eastern oyster	96 hr	EC50	175.000000	Saltwater	Flow Through
OPP	55283-68-6	Ethafluralin	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	240.000000	Saltwater	Flow Through
OPP	55283-68-6	Ethafluralin	Daphnia magna	Water flea	48 hr	EC50	60.000000	Freshwater	Static
OPP	55283-68-6	Ethafluralin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	32.000000	Freshwater	Static
OPP	55283-68-6	Ethafluralin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	102.000000	Freshwater	Flow Through
OPP	55283-68-6	Ethafluralin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	37.000000	Freshwater	Static
OPP	55283-68-6	Ethafluralin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	136.000000	Freshwater	Flow Through
OPP	563-12-2	Ethion	Crassostrea virginica	Eastern oyster	96 hr	EC50	40.000000	Saltwater	Flow Through
CERC-GED	563-12-2	Ethion	Daphnia magna	Water flea	48 hr	EC50	0.056000	Freshwater	Static
CERC-GED	563-12-2	Ethion	Daphnia pulex	Water flea	48 hr	EC50	2.800000	Freshwater	Static
OPP	563-12-2	Ethion	Gambusia affinis	Mosquitofish	96 hr	LC50	206.000000	Freshwater	Static
CERC-GED	563-12-2	Ethion	Gammaurus fasciatus	Scud	96 hr	LC50	1.800000	Freshwater	Static
OPP	563-12-2	Ethion	Gammaurus fasciatus	Scud	96 hr	LC50	9.400000	Freshwater	Static
CERC-GED	563-12-2	Ethion	Ictalurus punctatus	Channel catfish	96 hr	LC50	7600.000000	Freshwater	Static
OPP	563-12-2	Ethion	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	130.000000	Freshwater	Static
CERC-GED	563-12-2	Ethion	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	210.000000	Freshwater	Static
CERC-GED	563-12-2	Ethion	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	720.000000	Freshwater	Static
OPP	563-12-2	Ethion	Penaeus aztecus	Brown shrimp	48 hr	LC50	2.400000	Saltwater	Flow Through
OPP	563-12-2	Ethion	Penaeus duorarum	Pink shrimp	48 hr	LC50	19.000000	Saltwater	Flow Through
CERC-GED	563-12-2	Ethion	Pimephales promelas	Fathead minnow	96 hr	LC50	720.000000	Freshwater	Static
CERC-GED	563-12-2	Ethion	Pteronarcys californica	Stonefly	96 hr	LC50	2.800000	Freshwater	Static
CERC-GED	563-12-2	Ethion	Simocephalus serrulatus	Water flea	48 hr	EC50	4.700000	Freshwater	Static
OPP	26225-79-6	Ethofumesate	Americamysis bahia	Mysid	96 hr	LC50	5300.000000	Saltwater	Static
OPP	26225-79-6	Ethofumesate	Crassostrea virginica	Eastern oyster	96 hr	EC50	2600.000000	Saltwater	Flow Through
OPP	26225-79-6	Ethofumesate	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	25000.000000	Saltwater	Static
OPP	26225-79-6	Ethofumesate	Daphnia magna	Water flea	48 hr	EC50	64000.000000	Freshwater	Static
CERC-GED	26225-79-6	Ethofumesate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2500.000000	Freshwater	Static
OPP	26225-79-6	Ethofumesate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	21800.000000	Freshwater	Static Renewal
CERC-GED	26225-79-6	Ethofumesate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	750.000000	Freshwater	Static
OPP	26225-79-6	Ethofumesate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	17500.000000	Freshwater	Static Renewal
OPP	13194-48-4	Ethoprop	Americamysis bahia	Mysid	96 hr	LC50	18.760000	Saltwater	Flow Through
CERC-GED	13194-48-4	Ethoprop	Americamysis bahia	Mysid	96 hr	LC50	23.000000	Saltwater	Static
OPP	13194-48-4	Ethoprop	Crassostrea virginica	Eastern oyster	96 hr	EC50	3700.000000	Saltwater	Flow Through
CERC-GED	13194-48-4	Ethoprop	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	740.000000	Saltwater	Static
OPP	13194-48-4	Ethoprop	Daphnia magna	Water flea	48 hr	EC50	43.900000	Freshwater	Static
OPP	13194-48-4	Ethoprop	Daphnia magna	Water flea	48 hr	EC50	93.000000	Freshwater	Static
OPP	13194-48-4	Ethoprop	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	300.000000	Freshwater	Static
OPP	13194-48-4	Ethoprop	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1150.000000	Freshwater	Static
OPP	13194-48-4	Ethoprop	Palaemonetes pugio	Grass shrimp	96 hr	LC50	56.400000	Saltwater	Static
OPP	13194-48-4	Ethoprop	Penaeus stylostris	White shrimp	96 hr	LC50	6.400000	Saltwater	Static
OPP	13194-48-4	Ethoprop	Uca pugilator	Fiddler crab	96 hr	LC50	1600.000000	Saltwater	Static
OPP	91-53-2	Ethoxyquin	Daphnia magna	Water flea	48 hr	EC50	2000.000000	Freshwater	Flow Through
OPP	91-53-2	Ethoxyquin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	18000.000000	Freshwater	Flow Through

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CERC-GED	72-56-0	Ethylen	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4.400000	Freshwater	Static
CERC-GED	107-21-1	Ethylene glycol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	16.000000	Freshwater	Static
CERC-GED	107-21-1	Ethylene glycol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	41.000000	Freshwater	Static
OPP	2593-15-9	Etridiazole	Americamysis bahia	Mysid	96 hr	LC50	2450.000000	Saltwater	Flow Through
OPP	2593-15-9	Etridiazole	Crassostrea virginica	Eastern oyster	96 hr	EC50	2880.000000	Saltwater	Flow Through
OPP	2593-15-9	Etridiazole	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	4000.000000	Saltwater	Flow Through
OPP	2593-15-9	Etridiazole	Daphnia magna	Water flea	48 hr	EC50	4900.000000	Freshwater	Static
OPP	2593-15-9	Etridiazole	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	770.000000	Freshwater	Flow Through
OPP	4602-84-0	Famesol	Daphnia magna	Water flea	48 hr	EC50	2200.000000	Freshwater	Static
OPP	4602-84-0	Famesol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1800.000000	Freshwater	Static
OPP	143-18-0	Fatty Acids - Potassium salt of Oleic Acid	Daphnia magna	Water flea	48 hr	EC50	570.000000	Freshwater	Static
OPP	143-18-0	Fatty Acids - Potassium salt of Oleic Acid	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	23000.000000	Freshwater	Static
OPP	143-18-0	Fatty Acids - Potassium salt of Oleic Acid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	9190.000000	Freshwater	Static
OPP	68603-15-6	Fatty alcohols	Daphnia magna	Water flea	48 hr	EC50	6500.000000	Freshwater	Static
OPP	68603-15-6	Fatty alcohols	Daphnia magna	Water flea	48 hr	EC50	8200.000000	Freshwater	Static
OPP	68603-15-6	Fatty alcohols	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4300.000000	Freshwater	Static
OPP	68603-15-6	Fatty alcohols	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4310.000000	Freshwater	Static
CERC-GED	85-34-7	Fenac	Daphnia pulex	Water flea	48 hr	EC50	4500.000000	Freshwater	Static
CERC-GED	85-34-7	Fenac	Pteronarcys californica	Stonefly	96 hr	LC50	60000.000000	Freshwater	Static
CERC-GED	85-34-7	Fenac	Simocephalus serrulatus	Water flea	48 hr	EC50	6600.000000	Freshwater	Static
CERC-GED	140-56-7	Fenaminosulf	Gammarus fasciatus	Scud	96 hr	LC50	3700.000000	Freshwater	Static
CERC-GED	140-56-7	Fenaminosulf	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	85000.000000	Freshwater	Static
CERC-GED	140-56-7	Fenaminosulf	Pteronarcys californica	Stonefly	96 hr	LC50	24000.000000	Freshwater	Static
OPP	22224-92-6	Fenamiphos sulfoxide Degr.	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2000.000000	Freshwater	Static
OPP	60168-88-9	Fenarimol	Daphnia magna	Water flea	48 hr	EC50	6800.000000	Freshwater	Static
OPP	60168-88-9	Fenarimol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	900.000000	Freshwater	Static
OPP	60168-88-9	Fenarimol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1800.000000	Freshwater	Static
OPP	60168-88-9	Fenarimol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	5700.000000	Freshwater	Static
OPP	60168-88-9	Fenarimol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2100.000000	Freshwater	Static
OPP	60168-88-9	Fenarimol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3100.000000	Freshwater	Static
OPP	60168-88-9	Fenarimol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4100.000000	Freshwater	Static
OPP	114369-43-6	Fenbuconazole	Americamysis bahia	Mysid	96 hr	LC50	633.000000	Saltwater	Flow Through
OPP	114369-43-6	Fenbuconazole	Crassostrea virginica	Eastern oyster	96 hr	EC50	1200.000000	Saltwater	Flow Through
OPP	114369-43-6	Fenbuconazole	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	1800.000000	Saltwater	Flow Through
OPP	114369-43-6	Fenbuconazole	Daphnia magna	Water flea	48 hr	EC50	2300.000000	Freshwater	Flow Through
OPP	114369-43-6	Fenbuconazole	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	680.000000	Freshwater	Flow Through
OPP	114369-43-6	Fenbuconazole	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1500.000000	Freshwater	Flow Through
OPP	13356-08-6	Fenbutatin Oxide	Americamysis bahia	Mysid	96 hr	EC50	2.800000	Saltwater	Static
OPP	13356-08-6	Fenbutatin Oxide	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	20.800000	Saltwater	Flow Through
OPP	13356-08-6	Fenbutatin Oxide	Daphnia magna	Water flea	48 hr	EC50	31.000000	Freshwater	Static
CERC-GED	13356-08-6	Fenbutatin Oxide	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4.800000	Freshwater	Static
OPP	13356-08-6	Fenbutatin Oxide	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4.840000	Freshwater	Static
CERC-GED	13356-08-6	Fenbutatin Oxide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1.700000	Freshwater	Static
OPP	13356-08-6	Fenbutatin Oxide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6.600000	Freshwater	Static
OPP	126833-17-8	Fenhexamid	Americamysis bahia	Mysid	96 hr	LC50	4600.000000	Saltwater	Flow Through
OPP	126833-17-8	Fenhexamid	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3420.000000	Freshwater	Flow Through
OPP	126833-17-8	Fenhexamid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1340.000000	Freshwater	Flow Through
CERC-GED	122-14-5	Fenitrothion	Carassius auratus	Goldfish	96 hr	LC50	2800.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Chironomus plumosus	Midge	48 hr	EC50	3.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Chironomus plumosus	Midge	48 hr	EC50	11.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Daphnia magna	Water flea	48 hr	EC50	11.000000	Freshwater	Static
OPP	122-14-5	Fenitrothion	Gammarus pseudolimnaeus	Scud	96 hr	LC50	4.300000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Gammarus pseudolimnaeus	Scud	96 hr	LC50	6.000000	Freshwater	Static
OPP	122-14-5	Fenitrothion	Ictalurus punctatus	Channel catfish	96 hr	LC50	3700.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Ictalurus punctatus	Channel catfish	96 hr	LC50	7600.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Lepomis cyanellus	Green sunfish	96 hr	LC50	4100.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2500.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2700.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3100.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3400.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3600.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3700.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3800.000000	Freshwater	Static

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CERC-GED	122-14-5	Fenitrothion	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4100.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	2800.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	2880.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	5000.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1900.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2000.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2050.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2400.000000	Freshwater	Static
OPP	122-14-5	Fenitrothion	Ophiogomphus sp.	Dragonfly	96 hr	LC50	3.000000	Freshwater	Static
OPP	122-14-5	Fenitrothion	Perca flavescens	Yellow perch	96 hr	LC50	5800.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Pimephales promelas	Fathead minnow	96 hr	LC50	3200.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Pimephales promelas	Fathead minnow	96 hr	LC50	4300.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Pteronarcella badia	Stonefly	96 hr	LC50	7.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Pteronarcys californica	Stonefly	96 hr	LC50	4.000000	Freshwater	Static
OPP	122-14-5	Fenitrothion	Pteronarcys californica	Stonefly	96 hr	LC50	5.100000	Freshwater	Static
OPP	122-14-5	Fenitrothion	Pycnopsyche sp.	Caddisfly	96 hr	LC50	2.800000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Salmo salar	Atlantic salmon	96 hr	LC50	2050.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Salvelinus fontinalis	Brook trout	96 hr	LC50	2000.000000	Freshwater	Static
CERC-GED	122-14-5	Fenitrothion	Skwala sp.	Stonefly	96 hr	LC50	4.000000	Freshwater	Static
OPP	66441-23-4	Fenoxyprop-ethyl	Americanysis bahia	Mysid	96 hr	LC50	98.000000	Saltwater	Flow Through
OPP	66441-23-4	Fenoxyprop-ethyl	Americanysis bahia	Mysid	96 hr	LC50	107.000000	Saltwater	Flow Through
OPP	66441-23-4	Fenoxyprop-ethyl	Daphnia magna	Water flea	48 hr	EC50	3180.000000	Freshwater	Static
OPP	66441-23-4	Fenoxyprop-ethyl	Lepomis gibbosus	Pumpkinseed	96 hr	LC50	360.000000	Freshwater	Static
OPP	66441-23-4	Fenoxyprop-ethyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	310.000000	Freshwater	Static
OPP	66441-23-4	Fenoxyprop-ethyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	580.000000	Freshwater	Static
OPP	66441-23-4	Fenoxyprop-ethyl	Mercenaria mercenaria	Quahog clam	48 hr	EC50	200.000000	Saltwater	Static
OPP	66441-23-4	Fenoxyprop-ethyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	450.000000	Freshwater	Static
OPP	66441-23-4	Fenoxyprop-ethyl	Procambarus simulans	Crayfish	96 hr	LC50	1100.000000	Freshwater	Static
OPP	66441-23-4	Fenoxyprop-ethyl	Salmo trutta	Brown trout	96 hr	LC50	480.000000	Freshwater	Static
OPP	72490-01-8	Fenoxy carb	Cyprinus carpio	Common carp	96 hr	LC50	2700.000000	Freshwater	Static
OPP	72490-01-8	Fenoxy carb	Daphnia magna	Water flea	48 hr	EC50	400.000000	Freshwater	Static
OPP	72490-01-8	Fenoxy carb	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1860.000000	Freshwater	Static
OPP	72490-01-8	Fenoxy carb	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1600.000000	Freshwater	Static
OPP	72490-01-8	Fenoxy carb	Palaemonetes pugio	Grass shrimp	96 hr	LC50	2200.000000	Saltwater	Static Renewal
OPP	39515-41-8	Fenpropathrin	Americanysis bahia	Mysid	96 hr	LC50	0.021000	Saltwater	Static
OPP	39515-41-8	Fenpropathrin	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	3.100000	Saltwater	Static
OPP	39515-41-8	Fenpropathrin	Daphnia magna	Water flea	48 hr	EC50	0.530000	Freshwater	Static
OPP	39515-41-8	Fenpropathrin	Ictalurus punctatus	Channel catfish	96 hr	LC50	5.500000	Freshwater	Static
OPP	39515-41-8	Fenpropathrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2.200000	Freshwater	Static
OPP	39515-41-8	Fenpropathrin	Pimephales promelas	Fathead minnow	96 hr	LC50	2.370000	Freshwater	Flow Through
OPP	83588-43-6	Fenridazone-sodium	Daphnia magna	Water flea	48 hr	EC50	188000.000000	Freshwater	Static
OPP	83588-43-6	Fenridazone-sodium	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	141300.000000	Freshwater	Static
OPP	83588-43-6	Fenridazone-sodium	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	266500.000000	Freshwater	Static
CERC-GED	115-90-2	Fensulfothion	Gammarus fasciatus	Scud	96 hr	LC50	10.000000	Freshwater	Static
CERC-GED	115-90-2	Fensulfothion	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	72.000000	Freshwater	Static
OPP	55-38-9	Fenthion	Americanysis bahia	Mysid	96 hr	LC50	0.150000	Saltwater	Flow Through
OPP	55-38-9	Fenthion	Americanysis bahia	Mysid	96 hr	LC50	0.222000	Saltwater	Flow Through
CERC-GED	55-38-9	Fenthion	Asellus brevicaudus	Aquatic sow bug	96 hr	LC50	1800.000000	Freshwater	Static
OPP	55-38-9	Fenthion	Crassostrea virginica	Eastern oyster	96 hr	EC50	321.000000	Saltwater	Flow Through
OPP	55-38-9	Fenthion	Crassostrea virginica	Eastern oyster	96 hr	EC50	340.000000	Saltwater	Flow Through
OPP	55-38-9	Fenthion	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	1200.000000	Saltwater	Flow Through
OPP	55-38-9	Fenthion	Daphnia magna	Water flea	48 hr	EC50	5.200000	Freshwater	Flow Through
OPP	55-38-9	Fenthion	Daphnia magna	Water flea	48 hr	EC50	5.700000	Freshwater	Static
CERC-GED	55-38-9	Fenthion	Daphnia pulex	Water flea	48 hr	EC50	0.800000	Freshwater	Static
CERC-GED	55-38-9	Fenthion	Gammarus fasciatus	Scud	96 hr	LC50	110.000000	Freshwater	Static
CERC-GED	55-38-9	Fenthion	Gammarus lacustris	Scud	96 hr	LC50	8.400000	Freshwater	Static
OPP	55-38-9	Fenthion	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1700.000000	Freshwater	Flow Through
OPP	55-38-9	Fenthion	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	1150.000000	Freshwater	Flow Through
CERC-GED	55-38-9	Fenthion	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	1580.000000	Freshwater	Static
CERC-GED	55-38-9	Fenthion	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	550.000000	Freshwater	Static
OPP	55-38-9	Fenthion	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	830.000000	Freshwater	Flow Through
OPP	55-38-9	Fenthion	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	840.000000	Freshwater	Static

<sup>1</sup> OPP = Office of Pesticide Programs Database

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**Appendix 1**  
**Final Acute Toxicity Database**

OPP	55-38-9	Fenthion	<i>Penaeus aztecus</i>	Brown shrimp	48 hr	LC50	0.024000	Saltwater	Flow Through
CERC-GED	55-38-9	Fenthion	<i>Penaeus duorarum</i>	Pink shrimp	48 hr	LC50	0.250000	Saltwater	Static
OPP	55-38-9	Fenthion	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	3200.000000	Freshwater	Static
CERC-GED	55-38-9	Fenthion	<i>Pteronarcys californica</i>	Stonefly	96 hr	LC50	4.500000	Freshwater	Static
OPP	55-38-9	Fenthion	<i>Salvelinus namaycush</i>	Lake trout	96 hr	LC50	1450.000000	Freshwater	Static
CERC-GED	55-38-9	Fenthion	<i>Simocephalus serrulatus</i>	Water flea	48 hr	EC50	0.620000	Freshwater	Static
CERC-GED	62441-54-7	Fentrifanil	<i>Cyprinodon variegatus</i>	Sheepshead minnow	96 hr	LC50	9.000000	Saltwater	Static
OPP	51630-58-1	Fenvalerate	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	0.008000	Saltwater	Flow Through
CERC-GED	51630-58-1	Fenvalerate	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	0.021000	Saltwater	Static
CERC-GED	51630-58-1	Fenvalerate	<i>Chironomus plumosus</i>	Midge	48 hr	EC50	0.430000	Freshwater	Static
OPP	51630-58-1	Fenvalerate	<i>Cyprinodon variegatus</i>	Sheepshead minnow	96 hr	LC50	4.400000	Saltwater	Flow Through
CERC-GED	51630-58-1	Fenvalerate	<i>Cyprinodon variegatus</i>	Sheepshead minnow	96 hr	LC50	120.000000	Saltwater	Static
OPP	51630-58-1	Fenvalerate	<i>Daphnia magna</i>	Water flea	48 hr	EC50	0.900000	Freshwater	Static
CERC-GED	51630-58-1	Fenvalerate	<i>Daphnia magna</i>	Water flea	48 hr	EC50	2.100000	Freshwater	Static
CERC-GED	51630-58-1	Fenvalerate	<i>Gammarus pseudolimnaeus</i>	Scud	96 hr	LC50	0.032000	Freshwater	Static
CERC-GED	51630-58-1	Fenvalerate	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	2.350000	Freshwater	Static
OPP	51630-58-1	Fenvalerate	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.260000	Freshwater	Static
CERC-GED	51630-58-1	Fenvalerate	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.420000	Freshwater	Static
CERC-GED	51630-58-1	Fenvalerate	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.760000	Freshwater	Static
CERC-GED	51630-58-1	Fenvalerate	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.890000	Freshwater	Static
CERC-GED	51630-58-1	Fenvalerate	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	1.330000	Freshwater	Static
CERC-GED	51630-58-1	Fenvalerate	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	1.350000	Freshwater	Static
OPP	51630-58-1	Fenvalerate	<i>Leuresthes tenuis</i>	California grunion	96 hr	LC50	0.600000	Saltwater	Flow Through
OPP	51630-58-1	Fenvalerate	<i>Menidia beryllina</i>	Inland silverside	96 hr	LC50	1.000000	Saltwater	Flow Through
OPP	51630-58-1	Fenvalerate	<i>Menidia menidia</i>	Atlantic silverside	96 hr	LC50	0.314000	Saltwater	Flow Through
OPP	51630-58-1	Fenvalerate	<i>Mugil cephalus</i>	Striped mullet	96 hr	LC50	0.580000	Saltwater	Flow Through
CERC-GED	51630-58-1	Fenvalerate	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	0.470000	Freshwater	Static
CERC-GED	51630-58-1	Fenvalerate	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	0.620000	Freshwater	Static
CERC-GED	51630-58-1	Fenvalerate	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1.200000	Freshwater	Static
CERC-GED	51630-58-1	Fenvalerate	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1.500000	Freshwater	Static
OPP	51630-58-1	Fenvalerate	<i>Opsanus beta</i>	Gulf toadfish	96 hr	LC50	2.400000	Saltwater	Flow Through
OPP	51630-58-1	Fenvalerate	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	0.330000	Freshwater	Static Renewal
OPP	51630-58-1	Fenvalerate	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	1.130000	Freshwater	Static
CERC-GED	51630-58-1	Fenvalerate	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	2.350000	Freshwater	Static
OPP	51630-58-1	Fenvalerate	<i>Uca pugilator</i>	Fiddler crab	96 hr	LC50	53.000000	Saltwater	Static
OPP	7782-63-0	Ferrous sulfate heptahydrate	<i>Daphnia pulex</i>	Water flea	48 hr	EC50	7100.000000	Freshwater	Static
OPP	7782-63-0	Ferrous sulfate heptahydrate	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	51200.000000	Freshwater	Static
OPP	7782-63-0	Ferrous sulfate heptahydrate	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	20800.000000	Freshwater	Static
OPP	17375-41-6	Ferrous sulfate monohydrate	<i>Daphnia magna</i>	Water flea	48 hr	EC50	160000.000000	Freshwater	Static
OPP	17375-41-6	Ferrous sulfate monohydrate	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	51300.000000	Freshwater	Static
OPP	17375-41-6	Ferrous sulfate monohydrate	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	44000.000000	Freshwater	Static
OPP	120068-37-3	Fipronil	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	0.140000	Saltwater	Static
OPP	120068-37-3	Fipronil	<i>Crassostrea virginica</i>	Eastern oyster	96 hr	EC50	770.000000	Saltwater	Flow Through
OPP	120068-37-3	Fipronil	<i>Cyprinodon variegatus</i>	Sheepshead minnow	96 hr	LC50	130.000000	Saltwater	Flow Through
OPP	120068-37-3	Fipronil	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	560.000000	Freshwater	Flow Through
OPP	120068-37-3	Fipronil	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	25.000000	Freshwater	Flow Through
OPP	120068-37-3	Fipronil	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	83.000000	Freshwater	Flow Through
OPP	120068-37-3	Fipronil	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	246.000000	Freshwater	Flow Through
CERC-GED	74665-86-4	Fire-Trol 931	<i>Micropterus salmoides</i>	Largemouth bass	96 hr	LC50	1160000.000000	Freshwater	Static
CERC-GED	74665-86-4	Fire-Trol 931	<i>Oncorhynchus kisutch</i>	Coho salmon	96 hr	LC50	1000000.000000	Freshwater	Static
CERC-GED	74665-86-4	Fire-Trol 931	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	940000.000000	Freshwater	Static
CERC-GED	52756-25-9	Flamprop-methyl	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	7178.000000	Freshwater	Static
CERC-GED	52756-25-9	Flamprop-methyl	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	7400.000000	Freshwater	Static
CERC-GED	52756-25-9	Flamprop-methyl	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	7500.000000	Freshwater	Static
OPP	69806-50-4	Fluazifop-p-butyl	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	510.000000	Saltwater	Flow Through
OPP	69806-50-4	Fluazifop-p-butyl	<i>Crassostrea virginica</i>	Eastern oyster	96 hr	EC50	470.000000	Saltwater	Flow Through
OPP	79622-59-6	Fluazinam	<i>Cyprinus carpio</i>	Common carp	96 hr	LC50	145.000000	Freshwater	Static
OPP	79622-59-6	Fluazinam	<i>Daphnia magna</i>	Water flea	48 hr	EC50	180.000000	Freshwater	Static
OPP	79622-59-6	Fluazinam	<i>Daphnia magna</i>	Water flea	48 hr	EC50	222.000000	Freshwater	Flow Through
OPP	79622-59-6	Fluazinam	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	52.700000	Freshwater	Flow Through
OPP	79622-59-6	Fluazinam	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	36.000000	Freshwater	Flow Through
OPP	79622-59-6	Fluazinam	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	110.000000	Freshwater	Flow Through
CERC-GED	33245-39-5	Fluchloralin	<i>Daphnia magna</i>	Water flea	48 hr	EC50	560.000000	Freshwater	Static

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**Final Acute Toxicity Database**

CERC-GED	33245-39-5	Fluchloralin	Gammarus pseudolimnaeus	Scud	96 hr	LC50	56.000000	Freshwater	Static
CERC-GED	33245-39-5	Fluchloralin	Ictalurus punctatus	Channel catfish	96 hr	LC50	390.000000	Freshwater	Static
OPP	33245-39-5	Fluchloralin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	16.000000	Freshwater	Static
CERC-GED	33245-39-5	Fluchloralin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	42.500000	Freshwater	Static
OPP	33245-39-5	Fluchloralin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	12.000000	Freshwater	Static
CERC-GED	33245-39-5	Fluchloralin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	62.000000	Freshwater	Static
OPP	70124-77-5	Flucythrinate	Americamysis bahia	Mysid	96 hr	LC50	0.008000	Saltwater	Flow Through
CERC-GED	70124-77-5	Flucythrinate	Americamysis bahia	Mysid	96 hr	LC50	0.023000	Saltwater	Static
CERC-GED	70124-77-5	Flucythrinate	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	1.800000	Saltwater	Static
CERC-GED	70124-77-5	Flucythrinate	Menidia beryllina	Inland silverside	96 hr	LC50	0.420000	Saltwater	Static
OPP	142459-58-3	Flufenacet	Americamysis bahia	Mysid	96 hr	LC50	2720.000000	Saltwater	Flow Through
OPP	142459-58-3	Flufenacet	Crassostrea virginica	Eastern oyster	96 hr	EC50	12600.000000	Saltwater	Flow Through
OPP	142459-58-3	Flufenacet	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	5840.000000	Freshwater	Static Renewal
OPP	62924-70-3	Flumetralin	Americamysis bahia	Mysid	96 hr	LC50	94.000000	Saltwater	Flow Through
OPP	62924-70-3	Flumetralin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	17.900000	Freshwater	Static
OPP	62924-70-3	Flumetralin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	23.000000	Freshwater	Flow Through
OPP	62924-70-3	Flumetralin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	24.000000	Freshwater	Static
OPP	98967-40-9	Flumetsulam	Daphnia magna	Water flea	48 hr	EC50	254000.000000	Freshwater	Static
OPP	87546-18-7	Flumiclorac pentyl	Americamysis bahia	Mysid	96 hr	LC50	560.000000	Saltwater	Flow Through
OPP	87546-18-7	Flumiclorac pentyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1100.000000	Freshwater	Flow Through
OPP	2164-17-2	Fluometuron	Americamysis bahia	Mysid	96 hr	LC50	3800.000000	Saltwater	Flow Through
OPP	2164-17-2	Fluometuron	Americamysis bahia	Mysid	96 hr	LC50	6800.000000	Saltwater	Flow Through
CERC-GED	2164-17-2	Fluometuron	Chironomus plumosus	Midge	48 hr	EC50	220.000000	Freshwater	Static
OPP	2164-17-2	Fluometuron	Crassostrea virginica	Eastern oyster	96 hr	EC50	6530.000000	Saltwater	Flow Through
OPP	2164-17-2	Fluometuron	Crassostrea virginica	Eastern oyster	96 hr	EC50	8540.000000	Saltwater	Flow Through
OPP	2164-17-2	Fluometuron	Crassostrea virginica	Eastern oyster	96 hr	EC50	22000.000000	Saltwater	Flow Through
OPP	2164-17-2	Fluometuron	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	48000.000000	Saltwater	Flow Through
OPP	2164-17-2	Fluometuron	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	55300.000000	Saltwater	Static
OPP	2164-17-2	Fluometuron	Daphnia magna	Water flea	48 hr	EC50	9900.000000	Freshwater	Static
CERC-GED	2164-17-2	Fluometuron	Ictalurus punctatus	Channel catfish	96 hr	LC50	22500.000000	Freshwater	Static
CERC-GED	2164-17-2	Fluometuron	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	42500.000000	Freshwater	Static
OPP	2164-17-2	Fluometuron	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	48000.000000	Freshwater	Static
CERC-GED	2164-17-2	Fluometuron	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2960.000000	Freshwater	Static
CERC-GED	2164-17-2	Fluometuron	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	14500.000000	Freshwater	Static
OPP	2164-17-2	Fluometuron	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	26200.000000	Freshwater	Flow Through
OPP	2164-17-2	Fluometuron	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	30000.000000	Freshwater	Flow Through
CERC-GED	15457-05-3	Fluorodifen	Ictalurus punctatus	Channel catfish	96 hr	LC50	270.000000	Freshwater	Static
CERC-GED	15457-05-3	Fluorodifen	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	554.000000	Freshwater	Static
CERC-GED	59756-60-4	Fluridone	Chironomus plumosus	Midge	48 hr	EC50	1300.000000	Freshwater	Static
CERC-GED	59756-60-4	Fluridone	Daphnia magna	Water flea	48 hr	EC50	4400.000000	Freshwater	Static
CERC-GED	59756-60-4	Fluridone	Gammarus pseudolimnaeus	Scud	96 hr	LC50	2100.000000	Freshwater	Static
CERC-GED	59756-60-4	Fluridone	Ictalurus punctatus	Channel catfish	96 hr	LC50	10000.000000	Freshwater	Static
CERC-GED	59756-60-4	Fluridone	Ictalurus punctatus	Channel catfish	96 hr	LC50	13000.000000	Freshwater	Static
CERC-GED	59756-60-4	Fluridone	Ictalurus punctatus	Channel catfish	96 hr	LC50	13200.000000	Freshwater	Static
CERC-GED	59756-60-4	Fluridone	Ictalurus punctatus	Channel catfish	96 hr	LC50	13500.000000	Freshwater	Static
OPP	59756-60-4	Fluridone	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	12000.000000	Freshwater	Static
CERC-GED	59756-60-4	Fluridone	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	13000.000000	Freshwater	Static
CERC-GED	59756-60-4	Fluridone	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4500.000000	Freshwater	Static
CERC-GED	59756-60-4	Fluridone	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	5600.000000	Freshwater	Static
CERC-GED	59756-60-4	Fluridone	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	7600.000000	Freshwater	Static
OPP	59756-60-4	Fluridone	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	11700.000000	Freshwater	Static
CERC-GED	59756-60-4	Fluridone	Pimephales promelas	Fathead minnow	96 hr	LC50	22000.000000	Freshwater	Static
OPP	69377-81-7	Fluoroxypr acid	Crassostrea virginica	Eastern oyster	96 hr	EC50	51000.000000	Saltwater	Flow Through
OPP	69377-81-7	Fluoroxypr acid	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	14300.000000	Freshwater	Static
OPP	69377-81-7	Fluoroxypr acid	Menidia beryllina	Inland silverside	96 hr	LC50	40000.000000	Saltwater	Flow Through
OPP	81406-37-3	Fluoroxypr ester	Crassostrea virginica	Eastern oyster	96 hr	EC50	68.000000	Saltwater	Flow Through
OPP	56425-91-3	Flurprimidol	Daphnia magna	Water flea	48 hr	EC50	11800.000000	Freshwater	Static
OPP	56425-91-3	Flurprimidol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	17200.000000	Freshwater	Static
OPP	117337-19-6	Fluthiacet methyl	Americamysis bahia	Mysid	96 hr	LC50	280.000000	Saltwater	Flow Through
OPP	117337-19-6	Fluthiacet methyl	Crassostrea virginica	Eastern oyster	96 hr	EC50	700.000000	Saltwater	Flow Through
OPP	117337-19-6	Fluthiacet methyl	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	160.000000	Saltwater	Flow Through
OPP	117337-19-6	Fluthiacet methyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	140.000000	Freshwater	Flow Through
OPP	117337-19-6	Fluthiacet methyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	43.000000	Freshwater	Flow Through

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OPP	66332-96-5	Flutolanil	Americamysis bahia	Mysid	96 hr	LC50	130.000000	Saltwater	Static
OPP	66332-96-5	Flutolanil	Cyprinus carpio	Common carp	96 hr	LC50	2500.000000	Freshwater	Static
OPP	66332-96-5	Flutolanil	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	5400.000000	Freshwater	Static
OPP	66332-96-5	Flutolanil	Pimephales promelas	Fathead minnow	96 hr	LC50	4800.000000	Freshwater	Static
OPP	69409-94-5	Fluvalinate	Americamysis bahia	Mysid	96 hr	LC50	0.018000	Saltwater	Static
OPP	69409-94-5	Fluvalinate	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	10.800000	Saltwater	Static
OPP	69409-94-5	Fluvalinate	Daphnia magna	Water flea	48 hr	EC50	1.000000	Freshwater	Flow Through
OPP	69409-94-5	Fluvalinate	Daphnia magna	Water flea	48 hr	EC50	74.000000	Freshwater	Static
OPP	69409-94-5	Fluvalinate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2.700000	Freshwater	Static
OPP	69409-94-5	Fluvalinate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2.900000	Freshwater	Static
OPP	133-07-3	Folpet	Americamysis bahia	Mysid	96 hr	LC50	160.000000	Saltwater	Flow Through
OPP	133-07-3	Folpet	Crassostrea virginica	Eastern oyster	96 hr	EC50	13800.000000	Saltwater	Flow Through
OPP	133-07-3	Folpet	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	47700.000000	Saltwater	Flow Through
OPP	133-07-3	Folpet	Daphnia magna	Water flea	48 hr	EC50	20.000000	Freshwater	Flow Through
CERC-GED	133-07-3	Folpet	Gammarus fasciatus	Scud	96 hr	LC50	2500.000000	Freshwater	Static
CERC-GED	133-07-3	Folpet	Ictalurus punctatus	Channel catfish	96 hr	LC50	108.000000	Freshwater	Static
OPP	133-07-3	Folpet	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	38.000000	Freshwater	Static Renewal
OPP	133-07-3	Folpet	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	47.000000	Freshwater	Flow Through
CERC-GED	133-07-3	Folpet	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	71.700000	Freshwater	Static
CERC-GED	133-07-3	Folpet	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	106.000000	Freshwater	Static
OPP	133-07-3	Folpet	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	15.000000	Freshwater	Flow Through
CERC-GED	133-07-3	Folpet	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	39.000000	Freshwater	Static
CERC-GED	133-07-3	Folpet	Perca flavescens	Yellow perch	96 hr	LC50	177.000000	Freshwater	Static
CERC-GED	133-07-3	Folpet	Salmo trutta	Brown trout	96 hr	LC50	66.000000	Freshwater	Static
CERC-GED	133-07-3	Folpet	Salvelinus namaycush	Lake trout	96 hr	LC50	86.500000	Freshwater	Static
OPP	72178-02-0	Fomesafen	Daphnia magna	Water flea	48 hr	EC50	294000.000000	Freshwater	Static
OPP	944-22-9	Fonofos	Americamysis bahia	Mysid	96 hr	LC50	0.490000	Saltwater	Flow Through
OPP	944-22-9	Fonofos	Crassostrea gigas	Pacific oyster	48 hr	EC50	899.000000	Saltwater	Static
OPP	944-22-9	Fonofos	Crassostrea virginica	Eastern oyster	96 hr	EC50	330.000000	Saltwater	Flow Through
OPP	944-22-9	Fonofos	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	16.000000	Saltwater	Flow Through
OPP	944-22-9	Fonofos	Daphnia magna	Water flea	48 hr	EC50	2.000000	Freshwater	Static
OPP	944-22-9	Fonofos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	28.000000	Freshwater	Flow Through
OPP	944-22-9	Fonofos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	29.000000	Freshwater	Static
OPP	944-22-9	Fonofos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	20.000000	Freshwater	Static
OPP	944-22-9	Fonofos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	50.000000	Freshwater	Static
OPP	944-22-9	Fonofos	Penaeus aztecus	Brown shrimp	48 hr	LC50	1.900000	Saltwater	Flow Through
OPP	23422-53-9	Formelanate Hydrochloride	Crassostrea virginica	Eastern oyster	96 hr	EC50	2300.000000	Saltwater	Flow Through
OPP	23422-53-9	Formelanate Hydrochloride	Daphnia magna	Water flea	48 hr	EC50	86.800000	Freshwater	Static
OPP	23422-53-9	Formelanate Hydrochloride	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2700.000000	Freshwater	Static
OPP	23422-53-9	Formelanate Hydrochloride	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4400.000000	Freshwater	Static
OPP	23422-53-9	Formelanate Hydrochloride	Pachygrapsus crassipes	Shore crab	96 hr	LC50	6800.000000	Saltwater	Static
OPP	23422-53-9	Formelanate Hydrochloride	Palaemonetes pugio	Grass shrimp	96 hr	LC50	2500.000000	Saltwater	Static
OPP	25954-13-6	Fosamine ammonium	Daphnia magna	Water flea	48 hr	EC50	1524000.000000	Freshwater	Static
OPP	25954-13-6	Fosamine ammonium	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	590000.000000	Freshwater	Static
OPP	25954-13-6	Fosamine ammonium	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	377000.000000	Freshwater	Static
OPP	39148-24-8	Fosetyl-Al	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	120000.000000	Saltwater	Static Renewal
OPP	39148-24-8	Fosetyl-Al	Daphnia magna	Water flea	48 hr	EC50	304000.000000	Freshwater	Static
OPP	39148-24-8	Fosetyl-Al	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	141400.000000	Freshwater	Static
OPP	39148-24-8	Fosetyl-Al	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	75800.000000	Freshwater	Static
OPP	39148-24-8	Fosetyl-Al	Palaemonetes pugio	Grass shrimp	96 hr	LC50	3600.000000	Saltwater	Static
OPP	39148-24-8	Fosetyl-Al	Rasbora heteromorpha	Harlequin fish	96 hr	LC50	161300.000000	Saltwater	Static
OPP	39148-24-8	Fosetyl-Al	Uca pugilator	Fiddler crab	96 hr	LC50	145000.000000	Saltwater	Static
CERC-GED	5598-52-7	Fospirate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1.700000	Freshwater	Static
CERC-GED	5598-52-7	Fospirate	Pimephales promelas	Fathead minnow	96 hr	LC50	2.100000	Freshwater	Static
CERC-GED	55818-86-5	Fyrquel GT	Chironomus plumosus	Midge	48 hr	EC50	1800.000000	Freshwater	Static
CERC-GED	55818-86-5	Fyrquel GT	Daphnia magna	Water flea	48 hr	EC50	2900.000000	Freshwater	Static
CERC-GED	55818-86-5	Fyrquel GT	Gammaerus pseudolimnaeus	Scud	96 hr	LC50	1400.000000	Freshwater	Static
CERC-GED	55818-86-5	Fyrquel GT	Ictalurus punctatus	Channel catfish	96 hr	LC50	760.000000	Freshwater	Static
CERC-GED	55818-86-5	Fyrquel GT	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1900.000000	Freshwater	Static
CERC-GED	55818-86-5	Fyrquel GT	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2700.000000	Freshwater	Static
CERC-GED	55818-86-5	Fyrquel GT	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3100.000000	Freshwater	Static
CERC-GED	55818-86-5	Fyrquel GT	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4200.000000	Freshwater	Static
CERC-GED	55818-86-5	Fyrquel GT	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	640.000000	Freshwater	Static

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CERC-GED	55818-86-5	Fyrquel GT	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2000.000000	Freshwater	Static
CERC-GED	55818-86-5	Fyrquel GT	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2400.000000	Freshwater	Static
CERC-GED	55818-86-5	Fyrquel GT	Pimephales promelas	Fathead minnow	96 hr	LC50	2300.000000	Freshwater	Static
CERC-GED	106-24-1	Geraniol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3700.000000	Freshwater	Static
CERC-GED	106-24-1	Geraniol	Salmo trutta	Brown trout	96 hr	LC50	2600.000000	Freshwater	Static
OPP	77182-82-2	Glufosinate-ammonium	Daphnia magna	Water flea	48 hr	EC50	667560.000000	Freshwater	Static
OPP	111-30-8	Glutaraldehyde	Pimephales promelas	Fathead minnow	96 hr	LC50	11600.000000	Freshwater	Static
CERC-GED	556-22-9	Glyodin	Gammaurus fasciatus	Scud	96 hr	LC50	1100.000000	Freshwater	Static
OPP	1071-83-6	Glyphosate	Americanysis bahia	Mysid	96 hr	LC50	40000.000000	Saltwater	Static
OPP	1071-83-6	Glyphosate	Americanysis bahia	Mysid	96 hr	LC50	79000.000000	Saltwater	Static
OPP	1071-83-6	Glyphosate	Chironomus plumosus	Midge	48 hr	LC50	55000.000000	Freshwater	Static
OPP	1071-83-6	Glyphosate	Crinia insignifera	Australian frog	96 hr	LC50	78000.000000	Saltwater	Static
OPP	1071-83-6	Glyphosate	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	240000.000000	Saltwater	Static
OPP	1071-83-6	Glyphosate	Daphnia magna	Water flea	48 hr	EC50	134000.000000	Freshwater	Static
OPP	1071-83-6	Glyphosate	Ictalurus punctatus	Channel catfish	96 hr	LC50	130000.000000	Freshwater	Static
OPP	1071-83-6	Glyphosate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	45000.000000	Freshwater	Static
CERC-GED	1071-83-6	Glyphosate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	135000.000000	Freshwater	Static
OPP	1071-83-6	Glyphosate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	140000.000000	Freshwater	Static
OPP	1071-83-6	Glyphosate	Lottozia moorei	Australian frog	96 hr	LC50	110800.000000	Freshwater	Static
CERC-GED	1071-83-6	Glyphosate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	130000.000000	Freshwater	Static
OPP	1071-83-6	Glyphosate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	134000.000000	Freshwater	Static
OPP	1071-83-6	Glyphosate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	140000.000000	Freshwater	Static
OPP	1071-83-6	Glyphosate	Palaemonetes vulgaris	Shore shrimp	96 hr	LC50	281000.000000	Saltwater	Static
CERC-GED	1071-83-6	Glyphosate	Pimephales promelas	Fathead minnow	96 hr	LC50	97000.000000	Freshwater	Static
OPP	1071-83-6	Glyphosate	Uca pugilator	Fiddler crab	96 hr	LC50	934000.000000	Saltwater	Static
OPP	112226-61-6	Halofenoxide	Daphnia magna	Water flea	48 hr	EC50	36000.000000	Freshwater	Static
OPP	100784-20-1	Halosulfuron	Americanysis bahia	Mysid	96 hr	LC50	109000.000000	Saltwater	Flow Through
OPP	100784-20-1	Halosulfuron	Crassostrea virginica	Eastern oyster	96 hr	EC50	94000.000000	Saltwater	Flow Through
CERC-GED	76-44-8	Heptachlor	Bufo woodhousei fowleri	Fowlers toad	96 hr	LC50	435.000000	Freshwater	Static
CERC-GED	76-44-8	Heptachlor	Claassenia sabulosa	Stonefly	96 hr	LC50	2.800000	Freshwater	Static
CERC-GED	76-44-8	Heptachlor	Daphnia pulex	Water flea	48 hr	EC50	42.000000	Freshwater	Static
CERC-GED	76-44-8	Heptachlor	Gammaurus fasciatus	Scud	96 hr	LC50	56.000000	Freshwater	Static
CERC-GED	76-44-8	Heptachlor	Gammaurus lacustris	Scud	96 hr	LC50	29.000000	Freshwater	Static
CERC-GED	76-44-8	Heptachlor	Ictalurus punctatus	Channel catfish	96 hr	LC50	25.000000	Freshwater	Static
OPP	76-44-8	Heptachlor	Leiostomus xanthurus	Spot	96 hr	LC50	0.850000	Saltwater	Flow Through
CERC-GED	76-44-8	Heptachlor	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	13.000000	Freshwater	Static
CERC-GED	76-44-8	Heptachlor	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	7.400000	Freshwater	Static
CERC-GED	76-44-8	Heptachlor	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	32.000000	Freshwater	Static
OPP	76-44-8	Heptachlor	Palaemonetes vulgaris	Shore shrimp	96 hr	LC50	1.100000	Saltwater	Flow Through
CERC-GED	76-44-8	Heptachlor	Pimephales promelas	Fathead minnow	96 hr	LC50	23.000000	Freshwater	Static
CERC-GED	76-44-8	Heptachlor	Pteronarcys badia	Stonefly	96 hr	LC50	0.900000	Freshwater	Static
CERC-GED	76-44-8	Heptachlor	Pteronarcys californica	Stonefly	96 hr	LC50	1.100000	Freshwater	Static
CERC-GED	76-44-8	Heptachlor	Simocephalus serrulatus	Water flea	48 hr	EC50	47.000000	Freshwater	Static
CERC-GED	76-44-8	Heptachlor	Simocephalus serrulatus	Water flea	48 hr	EC50	80.000000	Freshwater	Static
CERC-GED	1024-57-3	Heptachlor Epoxide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	20.000000	Freshwater	Static
CERC-GED	118-74-1	Hexachlorobenzene	Ictalurus punctatus	Channel catfish	96 hr	LC50	13500.000000	Freshwater	Static
CERC-GED	87-68-3	Hexachlorobutadiene	Americanysis bahia	Mysid	96 hr	LC50	59.000000	Saltwater	Static
CERC-GED	87-68-3	Hexachlorobutadiene	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	560.000000	Saltwater	Static
CERC-GED	87-68-3	Hexachlorobutadiene	Ictalurus punctatus	Channel catfish	96 hr	LC50	760.000000	Freshwater	Static
CERC-GED	87-68-3	Hexachlorobutadiene	Lagodon rhomboides	Pinfish	96 hr	LC50	400.000000	Saltwater	Static
CERC-GED	87-68-3	Hexachlorobutadiene	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	760.000000	Freshwater	Static
CERC-GED	608-73-1	Hexachlorocyclohexane (Benzene hexachloride)	Bufo woodhousei fowleri	Fowlers toad	96 hr	LC50	4350.000000	Freshwater	Static
CERC-GED	608-73-1	Hexachlorocyclohexane (Benzene hexachloride)	Carassius auratus	Goldfish	96 hr	LC50	348.000000	Freshwater	Static
CERC-GED	608-73-1	Hexachlorocyclohexane (Benzene hexachloride)	Daphnia pulex	Water flea	48 hr	EC50	680.000000	Freshwater	Static
CERC-GED	608-73-1	Hexachlorocyclohexane (Benzene hexachloride)	Gammaurus lacustris	Scud	96 hr	LC50	78.000000	Freshwater	Static
CERC-GED	608-73-1	Hexachlorocyclohexane (Benzene hexachloride)	Ictalurus punctatus	Channel catfish	96 hr	LC50	105.000000	Freshwater	Static
CERC-GED	608-73-1	Hexachlorocyclohexane (Benzene hexachloride)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	67.000000	Freshwater	Static
CERC-GED	608-73-1	Hexachlorocyclohexane (Benzene hexachloride)	Micropterus salmoides	Largemouth bass	96 hr	LC50	41.000000	Freshwater	Static
CERC-GED	608-73-1	Hexachlorocyclohexane (Benzene hexachloride)	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	9.000000	Freshwater	Static
CERC-GED	608-73-1	Hexachlorocyclohexane (Benzene hexachloride)	Pimephales promelas	Fathead minnow	96 hr	LC50	125.000000	Freshwater	Static
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Ameiurus melas	Black bullhead	96 hr	LC50	64.000000	Freshwater	Static
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Asellus brevicaudus	Aquatic sow bug	96 hr	LC50	10.000000	Freshwater	Static
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Bufo woodhousei fowleri	Fowlers toad	96 hr	LC50	3200.000000	Freshwater	Static

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**Appendix 1**  
**Final Acute Toxicity Database**

CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Carassius auratus	Goldfish	96 hr	LC50	131.000000	Freshwater	Static		
OPP	58-89-9	Hexachlorocyclohexane (Lindane)	Crassostrea virginica	Eastern oyster	96 hr	EC50	240.000000	Saltwater	Flow Through		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Cypridopsis vidua	Ostracod	48 hr	LC50	3.200000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Cyprinus carpio	Common carp	96 hr	LC50	90.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Daphnia pulex	Water flea	48 hr	EC50	460.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Gammarus fasciatus	Scud	96 hr	LC50	10.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Gammarus lacustris	Scud	96 hr	LC50	88.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Ictalurus punctatus	Channel catfish	96 hr	LC50	44.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Lepomis cyanellus	Green sunfish	96 hr	LC50	83.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	56.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	68.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Micropterus salmoides	Largemouth bass	96 hr	LC50	32.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	23.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	41.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	27.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	31.000000	Freshwater	Static		
OPP	58-89-9	Hexachlorocyclohexane (Lindane)	Palaemonetes pugio	Grass shrimp	96 hr	LC50	4.400000	Saltwater	Flow Through		
OPP	58-89-9	Hexachlorocyclohexane (Lindane)	Penaeus aztecus	Brown shrimp	48 hr	LC50	0.220000	Saltwater	Flow Through		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Pimephales promelas	Fathead minnow	96 hr	LC50	87.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Pseudacris triseriata	Western chorus frog	96 hr	LC50	2650.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Pteronarcys californica	Stonefly	96 hr	LC50	1.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Pteronarcys californica	Stonefly	96 hr	LC50	4.500000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Salmo trutta	Brown trout	96 hr	LC50	24.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Salmo trutta	Brown trout	96 hr	LC50	25.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Salvelinus namaycush	Lake trout	96 hr	LC50	32.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Simocephalus serrulatus	Water flea	48 hr	EC50	520.000000	Freshwater	Static		
CERC-GED	58-89-9	Hexachlorocyclohexane (Lindane)	Simocephalus serrulatus	Water flea	48 hr	EC50	880.000000	Freshwater	Static		
ECOTOX	67-72-1	Hexachloroethane	Pimephales promelas	Fathead minnow	96 hr	LC50	1530.000000	Freshwater	Flow Through		
OPP	53042-79-8	Hexadecadienol, acetate	Daphnia magna	Water flea	48 hr	EC50	280.000000	Freshwater	Flow Through		
OPP	53042-79-8	Hexadecadienol, acetate	Daphnia magna	Water flea	48 hr	EC50	700.000000	Freshwater	Static		
OPP	53042-79-8	Hexadecadienol, acetate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	94900.000000	Freshwater	Static		
OPP	86479-06-3	Hexaflumuron	Daphnia magna	Water flea	48 hr	EC50	0.111000	Freshwater	Static		
OPP	51235-04-2	Hexazinone	Daphnia magna	Water flea	48 hr	EC50	151600.000000	Freshwater	Static		
OPP	51235-04-2	Hexazinone	Palaemonetes pugio	Grass shrimp	96 hr	LC50	78000.000000	Saltwater	Static		
OPP	51235-04-2	Hexazinone	Pimephales promelas	Fathead minnow	96 hr	LC50	274000.000000	Freshwater	Static		
OPP	78587-05-0	Hexythiazox (DPX-Y5893)	Daphnia carnata	Water flea	48 hr	EC50	742.000000	Freshwater	Static		
OPP	78587-05-0	Hexythiazox (DPX-Y5893)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	11600.000000	Freshwater	Static		
CERC-GED	12797-87-4	Houghto-Safe 1120	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	12000.000000	Freshwater	Static		
CERC-GED	12797-87-4	Houghto-Safe 1120	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1700.000000	Freshwater	Static		
CERC-GED	12797-87-4	Houghto-Safe 1120	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3400.000000	Freshwater	Static		
CERC-GED	12797-87-4	Houghto-Safe 1120	Pimephales promelas	Fathead minnow	96 hr	LC50	35000.000000	Freshwater	Static		
OPP	420-04-2	Hydrogen cyanamide	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	88000.000000	Freshwater	Static		
OPP	10004-44-1	Hymexazol	Daphnia magna	Water flea	48 hr	EC50	30800.000000	Freshwater	Static		
OPP	7778-54-3	Hypochlorite - Calcium (Hypochlorous acid, Calcium salt)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	400.000000	Freshwater	Flow Through		
OPP	35554-44-0	Imazalil	Daphnia magna	Water flea	48 hr	EC50	3160.000000	Freshwater	Static Renewal		
OPP	35554-44-0	Imazalil	Daphnia magna	Water flea	48 hr	EC50	3540.000000	Freshwater	Static		
OPP	35554-44-0	Imazalil	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3990.000000	Freshwater	Static Renewal		
OPP	35554-44-0	Imazalil	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1480.000000	Freshwater	Flow Through		
OPP	35554-44-0	Imazalil	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2000.000000	Freshwater	Static Renewal		
OPP	81405-85-8	Imazelhabenz	Daphnia magna	Water flea	48 hr	EC50	220000.000000	Freshwater	Static		
OPP	81405-85-8	Imazelhabenz	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	420000.000000	Freshwater	Static		
OPP	81405-85-8	Imazelhabenz	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	280000.000000	Freshwater	Static		
OPP	81335-77-5	Imazethapyr (Acid)	Ictalurus punctatus	Channel catfish	96 hr	LC50	240000.000000	Freshwater	Static		
OPP	81335-77-5	Imazethapyr (Acid)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	423000.000000	Freshwater	Static		
OPP	81335-77-5	Imazethapyr (Acid)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	344000.000000	Freshwater	Static		
OPP	105827-78-9	Imidacloprid	Americamysis bahia	Mysid	96 hr	LC50	38.000000	Saltwater	Flow Through		
OPP	105827-78-9	Imidacloprid	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	163000.000000	Saltwater	Static		
OPP	105827-78-9	Imidacloprid	Daphnia magna	Water flea	48 hr	EC50	85200.000000	Freshwater	Static		
OPP	105827-78-9	Imidacloprid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	229100.000000	Freshwater	Static		
OPP	72963-72-5	Imiprothrin (Pralle)	Daphnia magna	Water flea	48 hr	EC50	50.000000	Freshwater	Flow Through		
OPP	72963-72-5	Imiprothrin (Pralle)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	70.000000	Freshwater	Flow Through		
OPP	72963-72-5	Imiprothrin (Pralle)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	38.000000	Freshwater	Flow Through		
OPP	133-32-4	Indole-3-butrylic acid	Daphnia magna	Water flea	48 hr	EC50	57000.000000	Freshwater	Static		

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**Final Acute Toxicity Database**

OPP	Unknown	Inert-HOE (Aldicarb)	Daphnia magna	Water flea	48 hr	EC50	52000.000000	Freshwater	Static
OPP	Unknown	Inert-HOE (Aldicarb)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4200.000000	Freshwater	Static
OPP	Unknown	Inert-HOE (Butyl S(-) lactate)	Daphnia magna	Water flea	48 hr	EC50	423000.000000	Freshwater	Static
OPP	Unknown	Inert-HOE (Ethyl S(-) lactate)	Daphnia magna	Water flea	48 hr	EC50	683000.000000	Freshwater	Static
OPP	7553-56-2	Iodine	Daphnia magna	Water flea	48 hr	EC50	330.000000	Freshwater	Flow Through
OPP	11096-42-7	Iodine complex	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	7900.000000	Freshwater	Static
OPP	36734-19-7	Iprodione	Crassostrea virginica	Eastern oyster	96 hr	EC50	2300.000000	Saltwater	Flow Through
OPP	36734-19-7	Iprodione	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	7700.000000	Saltwater	Flow Through
OPP	36734-19-7	Iprodione	Daphnia magna	Water flea	48 hr	EC50	430.000000	Freshwater	Static
OPP	36734-19-7	Iprodione	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3700.000000	Freshwater	Flow Through
OPP	36734-19-7	Iprodione	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6300.000000	Freshwater	Static
OPP	36734-19-7	Iprodione	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4200.000000	Freshwater	Static
OPP	28159-98-0	Irgarol	Americamysis bahia	Mysid	96 hr	LC50	400.000000	Saltwater	Static
OPP	28159-98-0	Irgarol	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	3500.000000	Saltwater	Flow Through
OPP	28159-98-0	Irgarol	Daphnia magna	Water flea	48 hr	EC50	5300.000000	Freshwater	Static
OPP	28159-98-0	Irgarol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2600.000000	Freshwater	Static
OPP	28159-98-0	Irgarol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	750.000000	Freshwater	Flow Through
OPP	28159-98-0	Irgarol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	840.000000	Freshwater	Static
OPP	28159-98-0	Irgarol 1051(GS26575 Degrad)	Americamysis bahia	Mysid	96 hr	LC50	1500.000000	Saltwater	Static
OPP	108-80-5	Isocyanuric acid	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	620.000000	Freshwater	Static
OPP	25311-71-1	Isofenphos	Americamysis bahia	Mysid	96 hr	LC50	1.700000	Saltwater	Flow Through
OPP	25311-71-1	Isofenphos	Crassostrea virginica	Eastern oyster	96 hr	EC50	152.000000	Saltwater	Flow Through
OPP	25311-71-1	Isofenphos	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	1700.000000	Saltwater	Static Renewal
OPP	25311-71-1	Isofenphos	Daphnia magna	Water flea	48 hr	EC50	3.900000	Freshwater	Static
OPP	25311-71-1	Isofenphos	Daphnia magna	Water flea	48 hr	EC50	4.600000	Freshwater	Static
OPP	25311-71-1	Isofenphos	Ictalurus punctatus	Channel catfish	96 hr	LC50	2100.000000	Freshwater	Static
OPP	25311-71-1	Isofenphos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1400.000000	Freshwater	Static
OPP	25311-71-1	Isofenphos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2200.000000	Freshwater	Flow Through
OPP	25311-71-1	Isofenphos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1800.000000	Freshwater	Static
OPP	25311-71-1	Isofenphos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3300.000000	Freshwater	Flow Through
OPP	33820-53-0	Isopropalin	Daphnia magna	Water flea	48 hr	EC50	270.000000	Freshwater	Static
OPP	33820-53-0	Isopropalin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	24300.000000	Freshwater	Static Renewal
OPP	33820-53-0	Isopropalin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	803.000000	Freshwater	Static
OPP	141112-29-0	Isoxaflutole	Americamysis bahia	Mysid	96 hr	LC50	17.800000	Saltwater	Flow Through
OPP	141112-29-0	Isoxaflutole	Crassostrea virginica	Eastern oyster	96 hr	EC50	3300.000000	Saltwater	Flow Through
OPP	141112-29-0	Isoxaflutole(Degrad)	Americamysis bahia	Mysid	96 hr	LC50	3600.000000	Saltwater	Static Renewal
OPP	141112-29-0	Isoxaflutole(Degrad)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	160000.000000	Freshwater	Flow Through
CERC-GED	18181-70-9	Jodenphos	Ictalurus punctatus	Channel catfish	96 hr	LC50	388.000000	Freshwater	Static
CERC-GED	18181-70-9	Jodenphos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	16.200000	Freshwater	Static
CERC-GED	52769-67-2	Komeen	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	9200.000000	Freshwater	Static
CERC-GED	52769-67-2	Komeen	Pomacea paludosa	Apple snail	96 hr	LC50	52.000000	Freshwater	Static
OPP	143390-89-0	Kresoxim methyl	Americamysis bahia	Mysid	96 hr	LC50	59.000000	Saltwater	Flow Through
OPP	143390-89-0	Kresoxim methyl	Crassostrea virginica	Eastern oyster	96 hr	LC50	14.700000	Saltwater	Flow Through
OPP	143390-89-0	Kresoxim methyl	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	1173.000000	Saltwater	Flow Through
OPP	143390-89-0	Kresoxim methyl	Daphnia magna	Water flea	48 hr	EC50	332.000000	Freshwater	Flow Through
OPP	143390-89-0	Kresoxim methyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	190.000000	Freshwater	Flow Through
CERC-GED	1330-76-5	Kronitex 200	Gammarus pseudolinnaeus	Scud	96 hr	LC50	5500.000000	Freshwater	Static
CERC-GED	1330-78-5	Kronitex 200	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	29000.000000	Freshwater	Static
CERC-GED	1330-78-5	Kronitex 200	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4500.000000	Freshwater	Static
CERC-GED	1330-78-5	Kronitex 200	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6000.000000	Freshwater	Static
CERC-GED	1330-78-5	Kronitex 200	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6800.000000	Freshwater	Static
CERC-GED	21609-90-5	Leptophos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	22.300000	Freshwater	Static
CERC-GED	21609-90-5	Leptophos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	10.600000	Freshwater	Static
CERC-GED	21609-90-5	Leptophos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	13.100000	Freshwater	Static
CERC-GED	21609-90-5	Leptophos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	20.000000	Freshwater	Static
CERC-GED	21609-90-5	Leptophos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	33.000000	Freshwater	Static
CERC-GED	21609-90-5	Leptophos	Perca flavescens	Yellow perch	96 hr	LC50	690.000000	Freshwater	Static
CERC-GED	21609-90-5	Leptophos	Perca flavescens	Yellow perch	96 hr	LC50	2000.000000	Freshwater	Static
CERC-GED	21609-90-5	Leptophos	Salmo trutta	Brown trout	96 hr	LC50	7.600000	Freshwater	Static
CERC-GED	112-56-1	Lethane 384	Gammarus fasciatus	Scud	96 hr	LC50	4800.000000	Freshwater	Static
CERC-GED	1344-81-6	Lime sulfur (Calcium polysulfide)	Daphnia pulex	Water flea	48 hr	EC50	10000.000000	Freshwater	Static
CERC-GED	1344-81-6	Lime sulfur (Calcium polysulfide)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	48500.000000	Freshwater	Static
CERC-GED	1344-81-6	Lime sulfur (Calcium polysulfide)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	8200.000000	Freshwater	Static

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**Final Acute Toxicity Database**

CERC-GED	1344-81-6	Lime sulfur (Calcium polysulfide)	Simocephalus serrulatus	Water flea	48 hr	EC50	11000.000000	Freshwater	Static
OPP	138-86-3	Limonene	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	80000.000000	Freshwater	Static
OPP	330-55-2	Linuron	Americamysis bahia	Mysid	96 hr	LC50	3300.000000	Saltwater	Static
CERC-GED	330-55-2	Linuron	Chironomus plumosus	Midge	48 hr	EC50	2900.000000	Freshwater	Static
OPP	330-55-2	Linuron	Daphnia magna	Water flea	48 hr	EC50	120.000000	Freshwater	Static
CERC-GED	330-55-2	Linuron	Daphnia magna	Water flea	48 hr	EC50	270.000000	Freshwater	Static
OPP	330-55-2	Linuron	Daphnia magna	Water flea	48 hr	EC50	1910.000000	Freshwater	Static
CERC-GED	330-55-2	Linuron	Ictalurus punctatus	Channel catfish	96 hr	LC50	2900.000000	Freshwater	Static
OPP	330-55-2	Linuron	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	9600.000000	Freshwater	Static
OPP	330-55-2	Linuron	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3000.000000	Freshwater	Static
OPP	29457-72-5	Lithium perfluoroctane sulfon	Daphnia magna	Water flea	48 hr	EC50	67000.000000	Freshwater	Static
ECOTOX	7786-30-3	Magnesium chloride	Daphnia magna	Water flea	48 hr	EC50	140000.000000	Freshwater	Static
ECOTOX	7786-30-3	Magnesium chloride	Daphnia magna	Water flea	48 hr	EC50	322000.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Ameiurus metes	Black bullhead	96 hr	LC50	12900.000000	Freshwater	Static
OPP	121-75-5	Malathion	Americamysis bahia	Mysid	96 hr	LC50	2.200000	Saltwater	Flow Through
CERC-GED	121-75-5	Malathion	Asellus brevicaudus	Aquatic sow bug	96 hr	LC50	3000.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Atherix variegata	Snipe fly	96 hr	LC50	385.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Bufo woodhousei fowleri	Fowlers toad	96 hr	LC50	420.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Carassius auratus	Goldfish	96 hr	LC50	10700.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Claassenia sabulosa	Stonefly	96 hr	LC50	2.800000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Cypridopsis vidua	Ostracod	48 hr	LC50	47.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Cyprinus carpio	Common carp	96 hr	LC50	6590.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Daphnia magna	Water flea	48 hr	EC50	1.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Daphnia pulex	Water flea	48 hr	EC50	1.800000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Gammarus fasciatus	Scud	96 hr	LC50	0.760000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Hydropsyche sp.	Caddisfly	96 hr	LC50	5.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Ictalurus punctatus	Channel catfish	96 hr	LC50	8970.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Isoperla sp.	Stonefly	96 hr	LC50	0.690000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Lepomis cyanellus	Green sunfish	96 hr	LC50	146.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Lepomis cyanellus	Green sunfish	96 hr	LC50	175.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	30.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	55.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	103.000000	Freshwater	Static
OPP	121-75-5	Malathion	Lepomis microlophus	Redear sunfish	96 hr	LC50	62.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Lestes congener	Damselfly	96 hr	LC50	10.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Micropterus salmoides	Largemouth bass	96 hr	LC50	285.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	280.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	170.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	177.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	66.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	200.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Palaemonetes kadiakensis	Grass shrimp	96 hr	LC50	32.000000	Freshwater	Static
OPP	121-75-5	Malathion	Penaeus duorarum	Pink shrimp	48 hr	LC50	280.000000	Saltwater	Flow Through
CERC-GED	121-75-5	Malathion	Pimephales promelas	Fathead minnow	96 hr	LC50	8650.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Pseudacris triseriata	Western chorus frog	96 hr	LC50	200.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Pteronarcella badia	Stonefly	96 hr	LC50	1.100000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Pteronarcella badia	Stonefly	96 hr	LC50	6.200000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Pteronarcys californica	Stonefly	96 hr	LC50	10.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Salmo trutta	Brown trout	96 hr	LC50	101.000000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Simocephalus serrulatus	Water flea	48 hr	EC50	3.500000	Freshwater	Static
CERC-GED	121-75-5	Malathion	Simocephalus serrulatus	Water flea	48 hr	EC50	6.200000	Freshwater	Static
OPP	123-33-1	Maleic Hydrazide	Daphnia magna	Water flea	48 hr	EC50	107500.000000	Freshwater	Static
OPP	8018-01-7	Mancozeb	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	640.000000	Freshwater	Static
CERC-GED	12427-38-2	Maneb	Penaeus duorarum	Pink shrimp	48 hr	EC50	3800.000000	Saltwater	Static
OPP	10605-21-7	MBC - Carbendazim	Americamysis bahia	Mysid	96 hr	LC50	98.000000	Saltwater	Static
OPP	10605-21-7	MBC - Carbendazim	Daphnia magna	Water flea	48 hr	EC50	110.000000	Freshwater	Static
OPP	10605-21-7	MBC - Carbendazim	Daphnia magna	Water flea	48 hr	EC50	350.000000	Freshwater	Static
CERC-GED	10605-21-7	MBC - Carbendazim	Ictalurus punctatus	Channel catfish	96 hr	LC50	16.000000	Freshwater	Static
CERC-GED	10605-21-7	MBC - Carbendazim	Ictalurus punctatus	Channel catfish	96 hr	LC50	19.000000	Freshwater	Static
CERC-GED	10605-21-7	MBC - Carbendazim	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	650.000000	Freshwater	Static
OPP	10605-21-7	MBC - Carbendazim	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1320.000000	Freshwater	Flow Through
OPP	94-74-6	MCPA Acid	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	97000.000000	Freshwater	Static
OPP	94-74-6	MCPA Acid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	91000.000000	Freshwater	Static

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OPP	2039-46-5	MCPA Dimethylamine salt	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	89000.000000	Freshwater	Static
OPP	26544-20-7	MCPA isoctyl ester	Americamysis bahia	Mysid	96 hr	LC50	200.000000	Saltwater	Flow Through
CERC-GED	94-81-5	MCPB	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3300.000000	Freshwater	Static
CERC-GED	94-81-5	MCPB	Pimephales promelas	Fathead minnow	96 hr	LC50	12500.000000	Freshwater	Static
OPP	7085-19-0	MCPP Acid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	124800.000000	Freshwater	Static
OPP	70630-17-0	Mefenoxam	Crassostrea virginica	Eastern oyster	96 hr	EC50	9700.000000	Saltwater	Flow Through
ECOTOX	7487-94-7	Mercuric chloride	Aplexa hypnorum	Snail	96 hr	LC50	273.000000	Freshwater	Static
ECOTOX	7487-94-7	Mercuric chloride	Daphnia magna	Water flea	48 hr	EC50	5.000000	Freshwater	Static
ECOTOX	7487-94-7	Mercuric chloride	Gambusia affinis	Mosquitofish	96 hr	LC50	180.000000	Freshwater	Static
ECOTOX	7487-94-7	Mercuric chloride	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	118.000000	Freshwater	Static
CERC-GED	7487-94-7	Mercuric chloride	Menidia peninsulae	Tidewater silverside	96 hr	LC50	71.000000	Saltwater	Static
ECOTOX	7487-94-7	Mercuric chloride	Pimephales promelas	Fathead minnow	96 hr	LC50	168.000000	Freshwater	Flow Through
CERC-GED	150-50-5	Mephos	Ictalurus punctatus	Channel catfish	96 hr	LC50	3200.000000	Freshwater	Static
CERC-GED	150-50-5	Mephos	Ictalurus punctatus	Channel catfish	96 hr	LC50	6500.000000	Freshwater	Static
CERC-GED	150-50-5	Mephos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1300.000000	Freshwater	Static
CERC-GED	150-50-5	Mephos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	5600.000000	Freshwater	Static
CERC-GED	150-50-5	Mephos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	8000.000000	Freshwater	Static
CERC-GED	150-50-5	Mephos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	15000.000000	Freshwater	Static
CERC-GED	150-50-5	Mephos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	14500.000000	Freshwater	Static
CERC-GED	150-50-5	Mephos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	33000.000000	Freshwater	Static
OPP	57837-19-1	Metalaxyd	Americamysis bahia	Mysid	96 hr	LC50	25700.000000	Saltwater	Flow Through
OPP	57837-19-1	Metalaxyd	Crassostrea virginica	Eastern oyster	96 hr	EC50	4600.000000	Saltwater	Flow Through
OPP	57837-19-1	Metalaxyd	Daphnia magna	Water flea	48 hr	EC50	28000.000000	Freshwater	Static
OPP	57837-19-1	Metalaxyd	Daphnia magna	Water flea	48 hr	EC50	29300.000000	Freshwater	Static
OPP	57837-19-1	Metalaxyd	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	139000.000000	Freshwater	Static
OPP	57837-19-1	Metalaxyd	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	150000.000000	Freshwater	Static
OPP	57837-19-1	Metalaxyd	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	130000.000000	Freshwater	Static
OPP	57837-19-1	Metalaxyd	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	132000.000000	Freshwater	Static
OPP	108-62-3	Metaldehyde	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	149800.000000	Freshwater	Static
CERC-GED	137-42-8	Metam sodium	Cyprinopsis vidua	Ostracod	48 hr	LC50	35.000000	Freshwater	Static
OPP	10265-92-6	Methamidophos	Americamysis bahia	Mysid	96 hr	LC50	1050.000000	Saltwater	Static
OPP	10265-92-6	Methamidophos	Cyprinus carpio	Common carp	96 hr	LC50	68000.000000	Freshwater	Static Renewal
OPP	10265-92-6	Methamidophos	Daphnia magna	Water flea	48 hr	EC50	27.000000	Freshwater	Static
CERC-GED	67-56-1	Methanol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	19.000000	Freshwater	Static
OPP	950-37-8	Methidathion	Americamysis bahia	Mysid	96 hr	LC50	0.700000	Saltwater	Static
OPP	950-37-8	Methidathion	Carassius auratus	Goldfish	96 hr	LC50	6.800000	Freshwater	Static
OPP	950-37-8	Methidathion	Crassostrea virginica	Eastern oyster	96 hr	EC50	7500.000000	Saltwater	Flow Through
OPP	950-37-8	Methidathion	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	7.800000	Saltwater	Static
OPP	950-37-8	Methidathion	Daphnia magna	Water flea	48 hr	EC50	6.400000	Freshwater	Static
OPP	950-37-8	Methidathion	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2.200000	Freshwater	Static
OPP	950-37-8	Methidathion	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	10.000000	Freshwater	Static
CERC-GED	950-37-8	Methidathion	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	14.000000	Freshwater	Static
OPP	950-37-8	Methidathion	Penaeus duorarum	Pink shrimp	48 hr	LC50	15.000000	Saltwater	Flow Through
OPP	2032-65-7	Methiocarb	Daphnia magna	Water flea	48 hr	EC50	19.000000	Freshwater	Static
OPP	2032-65-7	Methiocarb	Fundulus similis	Longnose killifish	96 hr	LC50	320.000000	Saltwater	Flow Through
OPP	2032-65-7	Methiocarb	Hydropsyche sp.	Caddisfly	96 hr	EC50	14.000000	Freshwater	Static
OPP	2032-65-7	Methiocarb	Isonychia sp.	Mayfly	96 hr	EC50	7.000000	Freshwater	Static
OPP	2032-65-7	Methiocarb	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	754.000000	Freshwater	Static
OPP	2032-65-7	Methiocarb	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	436.000000	Freshwater	Static
CERC-GED	2032-65-7	Methiocarb	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	750.000000	Freshwater	Static
OPP	2032-65-7	Methiocarb	Oxytremra catenaria	River Horn snail	96 hr	LC50	100.000000	Not Reported	Static
OPP	2032-65-7	Methiocarb	Palaeomonetes kadiakensis	Glass shrimp	96 hr	LC50	110.000000	Freshwater	Static
OPP	2032-65-7	Methiocarb	Penaeus duorarum	Pink shrimp	48 hr	LC50	32.000000	Saltwater	Flow Through
OPP	2032-65-7	Methiocarb	Procamarbus acutus acutus	Crayfish	96 hr	LC50	1300.000000	Freshwater	Static
CERC-GED	2032-65-7	Methiocarb	Pteronarcys californica	Stonefly	96 hr	LC50	5.400000	Freshwater	Static
OPP	2032-65-7	Methiocarb	Rana sphenocephala	Leopard frog	96 hr	LC50	8700.000000	Freshwater	Static
OPP	16752-77-5	Methomyl	Americamysis bahia	Mysid	96 hr	LC50	230.000000	Saltwater	Static
CERC-GED	16752-77-5	Methomyl	Chironomus plumosus	Midge	48 hr	EC50	88.000000	Freshwater	Static
OPP	16752-77-5	Methomyl	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	1160.000000	Saltwater	Static
OPP	16752-77-5	Methomyl	Daphnia magna	Water flea	48 hr	EC50	31.700000	Freshwater	Static
CERC-GED	16752-77-5	Methomyl	Gammarus pseudolimnaeus	Scud	96 hr	LC50	920.000000	Freshwater	Static
CERC-GED	16752-77-5	Methomyl	Ictalurus punctatus	Channel catfish	96 hr	LC50	530.000000	Freshwater	Static
CERC-GED	16752-77-5	Methomyl	Isogenus sp.	Stonefly	96 hr	LC50	343.000000	Freshwater	Static

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CERC-GED = Combined Columbia Environmental Research Center and GED Database

**Appendix 1**  
**Final Acute Toxicity Database**

CERC-GED	16752-77-5	Methomyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	600.000000	Freshwater	Static
CERC-GED	16752-77-5	Methomyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	860.000000	Freshwater	Static
CERC-GED	16752-77-5	Methomyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1050.000000	Freshwater	Static
CERC-GED	16752-77-5	Methomyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1150.000000	Freshwater	Static
CERC-GED	16752-77-5	Methomyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1200.000000	Freshwater	Static
OPP	16752-77-5	Methomyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1750.000000	Freshwater	Static
OPP	16752-77-5	Methomyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1880.000000	Freshwater	Static
OPP	16752-77-5	Methomyl	<i>Micropterus salmoides</i>	Largemouth bass	96 hr	LC50	1250.000000	Freshwater	Static
OPP	16752-77-5	Methomyl	<i>Neopanope texana</i>	Mud crab	96 hr	LC50	410.000000	Not Reported	Static
OPP	16752-77-5	Methomyl	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	4050.000000	Freshwater	Static
CERC-GED	16752-77-5	Methomyl	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1050.000000	Freshwater	Static
CERC-GED	16752-77-5	Methomyl	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1100.000000	Freshwater	Static
CERC-GED	16752-77-5	Methomyl	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1600.000000	Freshwater	Static
CERC-GED	16752-77-5	Methomyl	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1700.000000	Freshwater	Static
OPP	16752-77-5	Methomyl	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	2400.000000	Freshwater	Static
OPP	16752-77-5	Methomyl	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	3400.000000	Freshwater	Static
OPP	16752-77-5	Methomyl	<i>Palaeomonetes vulgaris</i>	Shore shrimp	96 hr	LC50	49.000000	Saltwater	Static
CERC-GED	16752-77-5	Methomyl	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	2800.000000	Freshwater	Static
CERC-GED	16752-77-5	Methomyl	<i>Salmo salar</i>	Atlantic salmon	96 hr	LC50	1120.000000	Freshwater	Static
CERC-GED	16752-77-5	Methomyl	<i>Salmo salar</i>	Atlantic salmon	96 hr	LC50	1150.000000	Freshwater	Static
CERC-GED	16752-77-5	Methomyl	<i>Salvelinus fontinalis</i>	Brook trout	96 hr	LC50	1220.000000	Freshwater	Static
CERC-GED	16752-77-5	Methomyl	<i>Salvelinus fontinalis</i>	Brook trout	96 hr	LC50	2200.000000	Freshwater	Static
OPP	40596-69-8	Methoprene	<i>Americanasys bahia</i>	Mysis	96 hr	LC50	106.000000	Saltwater	Flow Through
OPP	40596-69-8	Methoprene	<i>Daphnia magna</i>	Water flea	48 hr	EC50	360.000000	Freshwater	Static
OPP	40596-69-8	Methoprene	<i>Daphnia magna</i>	Water flea	48 hr	EC50	890.000000	Freshwater	Static
OPP	40596-69-8	Methoprene	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	1520.000000	Freshwater	Static
CERC-GED	40596-69-8	Methoprene	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	2910.000000	Freshwater	Static
CERC-GED	40596-69-8	Methoprene	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1550.000000	Freshwater	Static
CERC-GED	841-06-5	Methoprotryne	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	15500.000000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Asellus brevicaudus</i>	Aquatic sow bug	96 hr	LC50	34.000000	Freshwater	Static
OPP	72-43-5	Methoxychlor	<i>Callinectes sapidus</i>	Blue crab	48 hr	LC50	320.000000	Saltwater	Flow Through
CERC-GED	72-43-5	Methoxychlor	<i>Carassius auratus</i>	Goldfish	96 hr	LC50	42.000000	Freshwater	Static
OPP	72-43-5	Methoxychlor	<i>Crassostrea virginica</i>	Eastern oyster	96 hr	EC50	90.000000	Saltwater	Flow Through
CERC-GED	72-43-5	Methoxychlor	<i>Cypridopsis vidua</i>	Ostracod	48 hr	EC50	32.000000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Daphnia pulex</i>	Water flea	48 hr	EC50	0.780000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Gammarus fasciatus</i>	Scud	96 hr	LC50	1.900000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Gammarus lacustris</i>	Scud	96 hr	LC50	0.800000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	52.000000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	32.000000	Freshwater	Static
OPP	72-43-5	Methoxychlor	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	42.000000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	51.000000	Freshwater	Static
OPP	72-43-5	Methoxychlor	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	75.000000	Freshwater	Static
OPP	72-43-5	Methoxychlor	<i>Micropterus salmoides</i>	Largemouth bass	96 hr	LC50	14.000000	Freshwater	Static
OPP	72-43-5	Methoxychlor	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	6.200000	Freshwater	Flow Through
OPP	72-43-5	Methoxychlor	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	13.000000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	15.000000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	11.000000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	12.000000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	17.000000	Freshwater	Static
OPP	72-43-5	Methoxychlor	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	30.000000	Freshwater	Static
OPP	72-43-5	Methoxychlor	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	61.000000	Freshwater	Flow Through
CERC-GED	72-43-5	Methoxychlor	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	62.000000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Palaeomonetes kadiakensis</i>	Grass shrimp	96 hr	LC50	1.050000	Freshwater	Static
OPP	72-43-5	Methoxychlor	<i>Penaeus aztecus</i>	Brown shrimp	48 hr	LC50	3.600000	Saltwater	Flow Through
OPP	72-43-5	Methoxychlor	<i>Penaeus duorarum</i>	Pink shrimp	48 hr	LC50	6.800000	Saltwater	Flow Through
CERC-GED	72-43-5	Methoxychlor	<i>Perca flavescens</i>	Yellow perch	96 hr	LC50	30.000000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	39.000000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Pseudacris triseriata</i>	Western chorus frog	96 hr	LC50	333.000000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Pteronarcys californica</i>	Stonefly	96 hr	LC50	1.400000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Salmo salar</i>	Atlantic salmon	96 hr	LC50	16.400000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Salmo salar</i>	Atlantic salmon	96 hr	LC50	17.200000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Salmo salar</i>	Atlantic salmon	96 hr	LC50	21.000000	Freshwater	Static

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**Appendix 1**  
**Final Acute Toxicity Database**

CERC-GED	72-43-5	Methoxychlor	<i>Salvelinus fontinalis</i>	Brook trout	96 hr	LC50	8.200000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Salvelinus fontinalis</i>	Brook trout	96 hr	LC50	10.500000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Salvelinus fontinalis</i>	Brook trout	96 hr	LC50	11.000000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Salvelinus fontinalis</i>	Brook trout	96 hr	LC50	19.000000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Salvelinus fontinalis</i>	Brook trout	96 hr	LC50	19.200000	Freshwater	Static
OPP	72-43-5	Methoxychlor	<i>Salvelinus namaycush</i>	Lake trout	96 hr	LC50	16.000000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Simocephalus serrulatus</i>	Water flea	48 hr	EC50	5.000000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Simocephalus serrulatus</i>	Water flea	48 hr	EC50	5.600000	Freshwater	Static
CERC-GED	72-43-5	Methoxychlor	<i>Tilapia mossambica</i>	Mozambique tilapia	96 hr	LC50	76.000000	Freshwater	Static
OPP	161050-58-4	Methoxyfenozide	<i>Americanysis bahia</i>	Mysid	96 hr	LC50	1300.000000	Saltwater	Flow Through
OPP	161050-58-4	Methoxyfenozide	<i>Crassostrea virginica</i>	Eastern oyster	96 hr	EC50	1200.000000	Saltwater	Flow Through
OPP	161050-58-4	Methoxyfenozide	<i>Daphnia magna</i>	Water flea	48 hr	EC50	3700.000000	Freshwater	Flow Through
OPP	134-20-3	Methyl anthralinate	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	9120.000000	Freshwater	Static
OPP	134-20-3	Methyl anthralinate	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	25400.000000	Freshwater	Flow Through
OPP	134-20-3	Methyl anthralinate	<i>Salmo salar</i>	Atlantic salmon	96 hr	LC50	32350.000000	Freshwater	Static
OPP	74-83-9	Methyl bromide	<i>Daphnia magna</i>	Water flea	48 hr	EC50	2600.000000	Freshwater	Static
ECOTOX	74-83-9	Methyl bromide	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	11000.000000	Freshwater	Static
ECOTOX	74-83-9	Methyl bromide	<i>Menidia beryllina</i>	Inland silverside	96 hr	LC50	12000.000000	Saltwater	Static
CERC-GED	8022-00-2	Methyl Demeton	<i>Gammarus lacustris</i>	Scud	96 hr	LC50	190.000000	Freshwater	Static
CERC-GED	8022-00-2	Methyl Demeton	<i>Pteronarcys californica</i>	Stonefly	96 hr	LC50	35.000000	Freshwater	Static
OPP	556-61-6	Methyl isothiocyanate	<i>Daphnia magna</i>	Water flea	48 hr	EC50	55.000000	Freshwater	Flow Through
OPP	556-61-6	Methyl isothiocyanate	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	142.000000	Freshwater	Flow Through
OPP	556-61-6	Methyl isothiocyanate	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	94.000000	Freshwater	Flow Through
OPP	1112-12-9	Methyl nonyl ketone	<i>Daphnia magna</i>	Water flea	48 hr	EC50	540.000000	Freshwater	Flow Through
OPP	1112-12-9	Methyl nonyl ketone	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	2100.000000	Freshwater	Flow Through
OPP	1112-12-9	Methyl nonyl ketone	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	3000.000000	Freshwater	Flow Through
OPP	298-00-0	Methyl Parathion	<i>Acartia tonsa</i>	Copepod	96 hr	LC50	28.000000	Saltwater	Static
CERC-GED	298-00-0	Methyl Parathion	<i>Ameiurus melas</i>	Black bullhead	96 hr	LC50	6640.000000	Freshwater	Static
OPP	298-00-0	Methyl Parathion	<i>Americanysis bahia</i>	Mysid	96 hr	LC50	0.780000	Saltwater	Flow Through
CERC-GED	298-00-0	Methyl Parathion	<i>Americanysis bahia</i>	Mysid	96 hr	LC50	0.980000	Saltwater	Static
CERC-GED	298-00-0	Methyl Parathion	<i>Carassius auratus</i>	Goldfish	96 hr	LC50	9000.000000	Freshwater	Static
CERC-GED	298-00-0	Methyl Parathion	<i>Cyprinodon variegatus</i>	Sheepshead minnow	96 hr	LC50	12000.000000	Saltwater	Static
CERC-GED	298-00-0	Methyl Parathion	<i>Cyprinus carpio</i>	Common carp	96 hr	LC50	7130.000000	Freshwater	Static
CERC-GED	298-00-0	Methyl Parathion	<i>Daphnia magna</i>	Water flea	48 hr	EC50	0.140000	Freshwater	Static
CERC-GED	298-00-0	Methyl Parathion	<i>Gammarus fasciatus</i>	Scud	96 hr	LC50	3.800000	Freshwater	Static
OPP	298-00-0	Methyl Parathion	<i>Hexagenia sp.</i>	Mayfly	96 hr	LC50	17.000000	Freshwater	Flow Through
CERC-GED	298-00-0	Methyl Parathion	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	5240.000000	Freshwater	Static
CERC-GED	298-00-0	Methyl Parathion	<i>Lepomis cyanellus</i>	Green sunfish	96 hr	LC50	6860.000000	Freshwater	Static
CERC-GED	298-00-0	Methyl Parathion	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	4380.000000	Freshwater	Static
CERC-GED	298-00-0	Methyl Parathion	<i>Micropterus salmoides</i>	Largemouth bass	96 hr	LC50	5220.000000	Freshwater	Static
CERC-GED	298-00-0	Methyl Parathion	<i>Oncorhynchus kisutch</i>	Coho salmon	96 hr	LC50	5300.000000	Freshwater	Static
CERC-GED	298-00-0	Methyl Parathion	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	3700.000000	Freshwater	Static
OPP	298-00-0	Methyl Parathion	<i>Penaeus aztecus</i>	Brown shrimp	48 hr	LC50	2.600000	Saltwater	Flow Through
OPP	298-00-0	Methyl Parathion	<i>Penaeus stylostris</i>	White shrimp	96 hr	LC50	1.400000	Saltwater	Static
CERC-GED	298-00-0	Methyl Parathion	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	8900.000000	Freshwater	Static
CERC-GED	298-00-0	Methyl Parathion	<i>Pseudacris triseriata</i>	Western chorus frog	96 hr	LC50	3700.000000	Freshwater	Static
CERC-GED	298-00-0	Methyl Parathion	<i>Salmo trutta</i>	Brown trout	96 hr	LC50	4700.000000	Freshwater	Static
CERC-GED	298-00-0	Methyl Parathion	<i>Simocephalus serrulatus</i>	Water flea	48 hr	EC50	0.370000	Freshwater	Static
CERC-GED	953-17-3	Methyl Trithion	<i>Gamma marus fasciatus</i>	Scud	96 hr	LC50	11.000000	Freshwater	Static
CERC-GED	953-17-3	Methyl Trithion	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	2800.000000	Freshwater	Static
CERC-GED	953-17-3	Methyl Trithion	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	960.000000	Freshwater	Static
CERC-GED	953-17-3	Methyl Trithion	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	1200.000000	Freshwater	Static
CERC-GED	953-17-3	Methyl Trithion	<i>Pteronarcys californica</i>	Stonefly	96 hr	LC50	6.200000	Freshwater	Static
OPP	51218-45-2	Metolachlor	<i>Americanysis bahia</i>	Mysid	96 hr	LC50	4900.000000	Saltwater	Flow Through
OPP	51218-45-2	Metolachlor	<i>Carassius carassius</i>	Crucian carp	96 hr	LC50	4900.000000	Freshwater	Static
CERC-GED	51218-45-2	Metolachlor	<i>Chironomus plumosus</i>	Midge	48 hr	EC50	3800.000000	Freshwater	Static
OPP	51218-45-2	Metolachlor	<i>Crassostrea virginica</i>	Eastern oyster	96 hr	EC50	1600.000000	Saltwater	Flow Through
OPP	51218-45-2	Metolachlor	<i>Cyprinodon variegatus</i>	Sheepshead minnow	96 hr	LC50	7900.000000	Saltwater	Static
OPP	51218-45-2	Metolachlor	<i>Cyprinodon variegatus</i>	Sheepshead minnow	96 hr	LC50	9800.000000	Saltwater	Flow Through
CERC-GED	51218-45-2	Metolachlor	<i>Daphnia magna</i>	Water flea	48 hr	EC50	23500.000000	Freshwater	Static
OPP	51218-45-2	Metolachlor	<i>Daphnia magna</i>	Water flea	48 hr	EC50	25100.000000	Freshwater	Static
OPP	51218-45-2	Metolachlor	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	4900.000000	Freshwater	Static
OPP	51218-45-2	Metolachlor	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	10000.000000	Freshwater	Static

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OPP	51218-45-2	Metolachlor	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3900.000000	Freshwater	Static
CERC-GED	51218-45-2	Metolachlor	Pimephales promelas	Fathead minnow	96 hr	LC50	8000.000000	Freshwater	Static
OPP	51218-45-2	Metolachlor	Poecilia reticulata	Guppy	96 hr	LC50	8600.000000	Freshwater	Static
OPP	87392-12-9	Metolachlor-s-isomer	Daphnia magna	Water flea	48 hr	EC50	26000.000000	Freshwater	Static
OPP	87392-12-9	Metolachlor-s-isomer	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	11900.000000	Freshwater	Static
OPP	21087-64-9	Metribuzin	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	85000.000000	Saltwater	Static
OPP	21087-64-9	Metribuzin	Daphnia magna	Water flea	48 hr	EC50	4180.000000	Freshwater	Static
OPP	21087-64-9	Metribuzin	Daphnia magna	Water flea	48 hr	EC50	4200.000000	Freshwater	Static
OPP	21087-64-9	Metribuzin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	75960.000000	Freshwater	Static
CERC-GED	21087-64-9	Metribuzin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	92000.000000	Freshwater	Static
CERC-GED	21087-64-9	Metribuzin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	42000.000000	Freshwater	Static
OPP	21087-64-9	Metribuzin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	64000.000000	Freshwater	Static
OPP	21087-64-9	Metribuzin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	76770.000000	Freshwater	Static
OPP	443-48-1	Metronidazole	Americanus bahia	Mysid	96 hr	LC50	182000.000000	Saltwater	Static
OPP	443-48-1	Metronidazole	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	1060000.000000	Saltwater	Static
CERC-GED	7786-34-7	Mevinphos	Asellus brevicaudus	Aquatic sow bug	96 hr	LC50	61.000000	Freshwater	Static
CERC-GED	7786-34-7	Mevinphos	Daphnia pulex	Water flea	48 hr	EC50	0.180000	Freshwater	Static
CERC-GED	7786-34-7	Mevinphos	Gammarus fasciatus	Scud	96 hr	LC50	3.500000	Freshwater	Static
CERC-GED	7786-34-7	Mevinphos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	59.000000	Freshwater	Static
CERC-GED	7786-34-7	Mevinphos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	11.900000	Freshwater	Static
OPP	7786-34-7	Mevinphos	Penaeus aztecus	Brown shrimp	48 hr	LC50	150.000000	Saltwater	Flow Through
CERC-GED	7786-34-7	Mevinphos	Pteronarcys californica	Stonefly	96 hr	LC50	5.000000	Freshwater	Static
CERC-GED	7786-34-7	Mevinphos	Simocephalus serrulatus	Water flea	48 hr	EC50	0.420000	Freshwater	Static
CERC-GED	7786-34-7	Mevinphos	Simocephalus serrulatus	Water flea	48 hr	EC50	0.490000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Ameiurus melas	Black bullhead	96 hr	LC50	16700.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Carassius auratus	Goldfish	96 hr	LC50	14000.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Cyprinus carpio	Common carp	96 hr	LC50	13400.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Daphnia pulex	Water flea	48 hr	EC50	10.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Gammarus fasciatus	Scud	96 hr	LC50	40.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Gammarus lacustris	Scud	96 hr	LC50	46.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Ictalurus punctatus	Channel catfish	96 hr	LC50	11400.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Lepomis cyanellus	Green sunfish	96 hr	LC50	16700.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	11200.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Micropterus salmoides	Largemouth bass	96 hr	LC50	14700.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	15800.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	23000.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	8100.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	12000.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	15000.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Oncorhynchus tshawytscha	Chinook salmon	96 hr	LC50	22700.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Perca flavescens	Yellow perch	96 hr	LC50	16200.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Pimephales promelas	Fathead minnow	96 hr	LC50	17000.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Procambarus sp.	Crayfish	96 hr	LC50	1230.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Pteronarcys californica	Stonefly	96 hr	LC50	10.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Salmo salar	Atlantic salmon	96 hr	LC50	22300.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Salmo trutta	Brown trout	96 hr	LC50	20000.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Salvelinus fontinalis	Brook trout	96 hr	LC50	21200.000000	Freshwater	Static
CERC-GED	315-18-4	Mexacarbate	Simoccephalus serrulatus	Water flea	48 hr	EC50	13.000000	Freshwater	Static
OPP	8012-95-1	Mineral oil (incl. parafin oil)	Daphnia magna	Water flea	48 hr	EC50	21.000000	Freshwater	Flow Through
OPP	2385-85-5	Mirex	Penaeus duorarum	Pink shrimp	48 hr	LC50	720.000000	Saltwater	Flow Through
CERC-GED	3567-25-7	Mitin FF	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4800.000000	Freshwater	Static
CERC-GED	3567-25-7	Mitin FF	Pimephales promelas	Fathead minnow	96 hr	LC50	6100.000000	Freshwater	Static
OPP	2212-67-1	Molinate	Americanus bahia	Mysid	96 hr	LC50	760.000000	Saltwater	Static
OPP	2212-67-1	Molinate	Americanus bahia	Mysid	96 hr	LC50	2500.000000	Saltwater	Static
OPP	2212-67-1	Molinate	Americanus bahia	Mysid	96 hr	LC50	3400.000000	Saltwater	Static
CERC-GED	2212-67-1	Molinate	Bufo woodhousei fowleri	Fowler's toad	96 hr	LC50	26000.000000	Freshwater	Static
OPP	2212-67-1	Molinate	Carassius auratus	Goldfish	96 hr	LC50	30300.000000	Freshwater	Static
OPP	2212-67-1	Molinate	Crassostrea gigas	Pacific oyster	48 hr	EC50	27100.000000	Saltwater	Static
OPP	2212-67-1	Molinate	Crassostrea virginica	Eastern oyster	96 hr	EC50	5300.000000	Saltwater	Flow Through
CERC-GED	2212-67-1	Molinate	Cypridopsis vidua	Ostracod	48 hr	EC50	180.000000	Freshwater	Static
OPP	2212-67-1	Molinate	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	12000.000000	Saltwater	Static
OPP	2212-67-1	Molinate	Cyprinus carpio	Common carp	96 hr	LC50	42800.000000	Freshwater	Static
OPP	2212-67-1	Molinate	Daphnia magna	Water flea	48 hr	EC50	19400.000000	Freshwater	Static

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**Appendix 1**  
**Final Acute Toxicity Database**

CERC-GED	2212-67-1	Molinate	Gammarus fasciatus	Scud	96 hr	LC50	4500.000000	Freshwater	Static
OPP	2212-67-1	Molinate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	19670.000000	Freshwater	Static
OPP	2212-67-1	Molinate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	23100.000000	Freshwater	Flow Through
OPP	2212-67-1	Molinate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	24000.000000	Freshwater	Static
OPP	2212-67-1	Molinate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	29000.000000	Freshwater	Static
OPP	2212-67-1	Molinate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	990.000000	Freshwater	Static
OPP	2212-67-1	Molinate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	7620.000000	Freshwater	Static
OPP	2212-67-1	Molinate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	14000.000000	Freshwater	Flow Through
OPP	2212-67-1	Molinate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	20000.000000	Freshwater	Flow Through
OPP	2212-67-1	Molinate	Oncorhynchus ishawytsha	Chinook salmon	96 hr	LC50	13000.000000	Freshwater	Flow Through
OPP	2212-67-1	Molinate	Pimephales promelas	Fathead minnow	96 hr	LC50	27000.000000	Freshwater	Static
CERC-GED	2212-67-1	Molinate	Pteronarcys californica	Stonefly	96 hr	LC50	340.000000	Freshwater	Static
CERC-GED	61791-26-2	MON 0818	Chironomus plumosus	Midge	48 hr	EC50	13000.000000	Freshwater	Static
CERC-GED	61791-26-2	MON 0818	Idalurus punctatus	Channel catfish	96 hr	LC50	13000.000000	Freshwater	Static
CERC-GED	61791-26-2	MON 0818	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3000.000000	Freshwater	Static
CERC-GED	61791-26-2	MON 0818	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3900.000000	Freshwater	Static
CERC-GED	61791-26-2	MON 0818	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2000.000000	Freshwater	Static
CERC-GED	61791-26-2	MON 0818	Pimephales promelas	Fathead minnow	96 hr	LC50	1400.000000	Freshwater	Static
OPP	21351-39-3	Monocarbamide dihydrogensulfate	Gasterosteus aculeatus	Threespine stickleback	96 hr	LC50	80000.000000	Not Reported	Static
CERC-GED	68923-22-4	Monocrotophos	Gammarus fasciatus	Scud	96 hr	LC50	260.000000	Freshwater	Static
CERC-GED	68923-22-4	Monocrotophos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	12100.000000	Freshwater	Static
OPP	150-68-5	Monuron	Lepomis gibbosus	Pumpkinseed	96 hr	LC50	3300.000000	Freshwater	Static
OPP	140-41-0	Monuron TCA	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4500.000000	Freshwater	Static
OPP	82633-79-2	MTI	Daphnia magna	Water flea	48 hr	EC50	1300.000000	Freshwater	Flow Through
OPP	82633-79-2	MTI	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2100.000000	Freshwater	Static
OPP	82633-79-2	MTI	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	890.000000	Freshwater	Static
OPP	88671-89-0	Myclobutanil	Americanays bahia	Mysid	96 hr	LC50	240.000000	Saltwater	Flow Through
OPP	88671-89-0	Myclobutanil	Crassostrea virginica	Eastern oyster	96 hr	EC50	680.000000	Saltwater	Flow Through
OPP	88671-89-0	Myclobutanil	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	4700.000000	Saltwater	Flow Through
OPP	134-62-3	N,N-Diethyl-meta-toluamide(DEET)	Daphnia magna	Water flea	48 hr	EC50	75000.000000	Freshwater	Static
OPP	134-62-3	N,N-Diethyl-meta-toluamide(DEET)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	71250.000000	Freshwater	Static
CERC-GED	300-76-5	Naled	Asellus brevicaudus	Aquatic sow bug	96 hr	LC50	41.000000	Freshwater	Static
OPP	300-76-5	Naled	Crassostrea virginica	Eastern oyster	96 hr	EC50	190.000000	Saltwater	Flow Through
OPP	300-76-5	Naled	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	1200.000000	Saltwater	Flow Through
OPP	300-76-5	Naled	Daphnia magna	Water flea	48 hr	EC50	0.300000	Freshwater	Static
CERC-GED	300-76-5	Naled	Daphnia pulex	Water flea	48 hr	EC50	0.400000	Freshwater	Static
OPP	300-76-5	Naled	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	600.000000	Freshwater	Flow Through
OPP	300-76-5	Naled	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	160.000000	Freshwater	Static
CERC-GED	300-76-5	Naled	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	175.000000	Freshwater	Static
CERC-GED	300-76-5	Naled	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	195.000000	Freshwater	Static
OPP	300-76-5	Naled	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	210.000000	Freshwater	Flow Through
OPP	300-76-5	Naled	Palaemonetes vulgaris	Shore shrimp	96 hr	LC50	9.300000	Saltwater	Flow Through
CERC-GED	300-76-5	Naled	Pimephales promelas	Fathead minnow	96 hr	LC50	3300.000000	Freshwater	Static
CERC-GED	300-76-5	Naled	Pteronarcys californica	Stonefly	96 hr	LC50	8.000000	Freshwater	Static
CERC-GED	300-76-5	Naled	Simocephalus serrulatus	Water flea	48 hr	EC50	1.100000	Freshwater	Static
CERC-GED	2122-70-5	Naphthalene acetate - potassium	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	76000.000000	Freshwater	Static
OPP	15299-99-7	Napropamide	Americanays bahia	Mysid	96 hr	LC50	4200.000000	Saltwater	Static
OPP	15299-99-7	Napropamide	Crassostrea virginica	Eastern oyster	96 hr	EC50	1400.000000	Saltwater	Flow Through
OPP	15299-99-7	Napropamide	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	14000.000000	Saltwater	Static
OPP	15299-99-7	Napropamide	Daphnia magna	Water flea	48 hr	EC50	14300.000000	Freshwater	Static
OPP	15299-99-7	Napropamide	Daphnia magna	Water flea	48 hr	EC50	24700.000000	Freshwater	Static
OPP	15299-99-7	Napropamide	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	12000.000000	Freshwater	Static
OPP	15299-99-7	Napropamide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	9400.000000	Freshwater	Static
OPP	15299-99-7	Napropamide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	13400.000000	Freshwater	Static
OPP	132-66-1	Naptalam, Sodium	Daphnia magna	Water flea	48 hr	EC50	11850.000000	Freshwater	Static
OPP	132-66-1	Naptalam, Sodium	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	354400.000000	Freshwater	Static
OPP	132-66-1	Naptalam, Sodium	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	76100.000000	Freshwater	Static
OPP	86-87-3	Naphthaleneacetic acid	Daphnia magna	Water flea	48 hr	EC50	180000.000000	Freshwater	Static
OPP	86-87-3	Naphthaleneacetic acid	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	41000.000000	Freshwater	Static
OPP	86-87-3	Naphthaleneacetic acid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	28000.000000	Freshwater	Static
CERC-GED	68131-39-5	Neodol 25-12	Pimephales promelas	Fathead minnow	96 hr	LC50	2940.000000	Freshwater	Static
CERC-GED	68131-39-5	Neodol 25-12	Pimephales promelas	Fathead minnow	96 hr	LC50	3620.000000	Freshwater	Static
CERC-GED	68131-39-5	Neodol 25-9	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1030.000000	Freshwater	Static

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**Appendix 1**  
**Final Acute Toxicity Database**

OPP	7212-44-4	Neurolidol	Daphnia magna	Water flea	48 hr	EC50	2200.000000	Freshwater	Static
OPP	7212-44-4	Neurolidol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1800.000000	Freshwater	Static
ECOTOX	7718-54-9	Nickelous chloride	Daphnia magna	Water flea	48 hr	EC50	510.000000	Freshwater	Static
ECOTOX	7718-54-9	Nickelous chloride	Daphnia magna	Water flea	48 hr	LC50	1800.000000	Freshwater	Static
CERC-GED	7718-54-9	Nickelous chloride	Menidia peninsulae	Tidewater silverside	96 hr	LC50	38000.000000	Saltwater	Static
ECOTOX	7718-54-9	Nickelous chloride	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	10000.000000	Freshwater	Flow Through
ECOTOX	7718-54-9	Nickelous chloride	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	10900.000000	Freshwater	Flow Through
OPP	1929-82-4	Nitrapyrin	Crassostrea virginica	Eastern oyster	96 hr	EC50	280.000000	Saltwater	Flow Through
OPP	1929-82-4	Nitrapyrin	Crassostrea virginica	Eastern oyster	96 hr	EC50	410.000000	Saltwater	Flow Through
OPP	1929-82-4	Nitrapyrin	Daphnia magna	Water flea	48 hr	EC50	2200.000000	Freshwater	Flow Through
OPP	1929-82-4	Nitrapyrin	Daphnia magna	Water flea	48 hr	EC50	5800.000000	Freshwater	Static
CERC-GED	1929-82-4	Nitrapyrin	Ictalurus punctatus	Channel catfish	96 hr	LC50	5800.000000	Freshwater	Static
OPP	1929-82-4	Nitrapyrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3400.000000	Freshwater	Flow Through
OPP	1929-82-4	Nitrapyrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	7680.000000	Freshwater	Static
OPP	1929-82-4	Nitrapyrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4000.000000	Freshwater	Static
CERC-GED	1929-82-4	Nitrapyrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	7500.000000	Freshwater	Static
OPP	1929-82-4	Nitrapyrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	9190.000000	Freshwater	Static
OPP	1929-82-4	Nitrapyrin	Palaemonetes pugio	Grass shrimp	96 hr	LC50	3100.000000	Saltwater	Flow Through
CERC-GED	1929-82-4	Nitrapyrin	Pimephales promelas	Fathead minnow	96 hr	LC50	10200.000000	Freshwater	Static
ECOTOX	10099-74-8	Nitric acid, Lead (2+) salt	Daphnia magna	Water flea	48 hr	LC50	517.000000	Freshwater	Static
ECOTOX	10099-74-8	Nitric acid, Lead (2+) salt	Gammarus pseudolimnaeus	Scud	96 hr	LC50	124.000000	Freshwater	Flow Through
CERC-GED	1836-75-5	Nitrofen	Gammarus fasciatus	Scud	96 hr	LC50	3100.000000	Freshwater	Static
OPP	105726-67-8	N-methylnodecanamide	Daphnia magna	Water flea	48 hr	EC50	130000.000000	Freshwater	Static
OPP	105726-67-8	N-methylnodecanamide	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	90000.000000	Freshwater	Static
OPP	105726-67-8	N-methylnodecanamide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	72000.000000	Freshwater	Static
OPP	113-48-4	n-octyl bicycloheptene dicaboximide (MGK-264)	Daphnia magna	Water flea	48 hr	EC50	2300.000000	Freshwater	Flow Through
OPP	113-48-4	n-octyl bicycloheptene dicaboximide (MGK-264)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2400.000000	Freshwater	Flow Through
OPP	113-48-4	n-octyl bicycloheptene dicaboximide (MGK-264)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1400.000000	Freshwater	Flow Through
OPP	112-05-0	Nonanoic acid	Daphnia magna	Water flea	48 hr	EC50	96000.000000	Freshwater	Static
OPP	112-05-0	Nonanoic acid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	91000.000000	Freshwater	Static
CERC-GED	2163-79-3	Norea	Carassius auratus	Goldfish	96 hr	LC50	37000.000000	Freshwater	Static
CERC-GED	2163-79-3	Norea	Gammarus fasciatus	Scud	96 hr	LC50	1370.000000	Freshwater	Static
CERC-GED	2163-79-3	Norea	Pimephales promelas	Fathead minnow	96 hr	LC50	32000.000000	Freshwater	Static
OPP	27314-13-2	Norfurazon	Americamysis bahia	Mysid	96 hr	LC50	5530.000000	Saltwater	Flow Through
OPP	27314-13-2	Norfurazon	Crassostrea virginica	Eastern oyster	96 hr	EC50	3800.000000	Saltwater	Flow Through
OPP	27314-13-2	Norfurazon	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	9580.000000	Saltwater	Flow Through
OPP	27314-13-2	Norfurazon	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	16300.000000	Freshwater	Static
OPP	27314-13-2	Norfurazon	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	8100.000000	Freshwater	Static
OPP	58-36-6	OBPA	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	8.000000	Saltwater	Static
OPP	58-36-6	OBPA	Daphnia magna	Water flea	48 hr	EC50	4.800000	Freshwater	Static
OPP	58-36-6	OBPA	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	8.000000	Freshwater	Static
OPP	58-36-6	OBPA	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3.500000	Freshwater	Static
OPP	58-36-6	OBPA	Palaemonetes pugio	Grass shrimp	96 hr	LC50	50.000000	Saltwater	Static
OPP	26530-20-1	Ochthilinone	Americamysis bahia	Mysid	96 hr	LC50	71.000000	Saltwater	Flow Through
OPP	26530-20-1	Ochthilinone	Crassostrea virginica	Eastern oyster	96 hr	EC50	13.000000	Saltwater	Flow Through
OPP	26530-20-1	Ochthilinone	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	160.000000	Saltwater	Flow Through
OPP	26530-20-1	Ochthilinone	Daphnia magna	Water flea	48 hr	EC50	180.000000	Freshwater	Static
OPP	26530-20-1	Ochthilinone	Daphnia magna	Water flea	48 hr	EC50	320.000000	Freshwater	Flow Through
OPP	26530-20-1	Ochthilinone	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	180.000000	Freshwater	Flow Through
OPP	26530-20-1	Ochthilinone	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	196.000000	Freshwater	Static
OPP	26530-20-1	Ochthilinone	Lepomis microlophus	Redear sunfish	96 hr	LC50	154.000000	Freshwater	Static
OPP	26530-20-1	Ochthilinone	Notemigonus crysoleucas	Golden shiner	96 hr	LC50	154.000000	Freshwater	Static
OPP	26530-20-1	Ochthilinone	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	47.000000	Freshwater	Flow Through
OPP	26530-20-1	Ochthilinone	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	65.500000	Freshwater	Static
OPP	26530-20-1	Ochthilinone	Pimephales promelas	Fathead minnow	96 hr	LC50	140.000000	Freshwater	Static
OPP	90-43-7	O-Phenylphenol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2740.000000	Freshwater	Not Reported
OPP	90-43-7	O-Phenylphenol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2750.000000	Freshwater	Not Reported
CERC-GED	25474-41-3	Ortho 11775	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	16.000000	Freshwater	Static
CERC-GED	25474-41-3	Ortho 11775	Pimephales promelas	Fathead minnow	96 hr	LC50	61.000000	Freshwater	Static
OPP	19044-88-3	Oryzalin	Daphnia magna	Water flea	48 hr	EC50	1500.000000	Freshwater	Static
OPP	19044-88-3	Oryzalin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2880.000000	Freshwater	Static
OPP	19044-88-3	Oryzalin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3260.000000	Freshwater	Static
OPP	19044-88-3	Oryzalin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3450.000000	Freshwater	Static

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CERC-GED	80-33-1	Ovex	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	620.000000	Freshwater	Static
CERC-GED	80-33-1	Ovex	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	623.000000	Freshwater	Static
CERC-GED	80-33-1	Ovex	Pteronarcys californica	Stonefly	96 hr	LC50	310.000000	Freshwater	Static
OPP	19666-30-9	Oxadiazon	Americamysis bahia	Mysid	96 hr	LC50	270.000000	Saltwater	Flow Through
OPP	19666-30-9	Oxadiazon	Crassostrea virginica	Eastern oyster	96 hr	EC50	700.000000	Saltwater	Flow Through
OPP	19666-30-9	Oxadiazon	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	1500.000000	Saltwater	Flow Through
OPP	19666-30-9	Oxadiazon	Daphnia magna	Water flea	48 hr	EC50	530.000000	Freshwater	Static
OPP	19666-30-9	Oxadiazon	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	880.000000	Freshwater	Static
OPP	19666-30-9	Oxadiazon	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1200.000000	Freshwater	Flow Through
OPP	19666-30-9	Oxadiazon	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1050.000000	Freshwater	Static
OPP	19666-30-9	Oxadiazon	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1200.000000	Freshwater	Flow Through
OPP	77732-09-3	Oxadixyl	Daphnia magna	Water flea	48 hr	EC50	530000.000000	Freshwater	Static
OPP	23135-22-0	Oxamyl	Carassius auratus	Goldfish	96 hr	LC50	27500.000000	Freshwater	Static
CERC-GED	23135-22-0	Oxamyl	Chironomus plumosus	Midge	48 hr	EC50	180.000000	Freshwater	Static
OPP	23135-22-0	Oxamyl	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	2600.000000	Saltwater	Static
CERC-GED	23135-22-0	Oxamyl	Daphnia magna	Water flea	48 hr	EC50	420.000000	Freshwater	Static
OPP	23135-22-0	Oxamyl	Daphnia magna	Water flea	48 hr	EC50	5700.000000	Freshwater	Static
CERC-GED	23135-22-0	Oxamyl	Ictalurus punctatus	Channel catfish	96 hr	LC50	17500.000000	Freshwater	Static
OPP	23135-22-0	Oxamyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	5600.000000	Freshwater	Static
CERC-GED	23135-22-0	Oxamyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1000.000000	Freshwater	Static
CERC-GED	23135-22-0	Oxamyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4200.000000	Freshwater	Static
OPP	23135-22-0	Oxamyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4700.000000	Freshwater	Static
OPP	7747-35-5	Oxazolidine E	Crassostrea virginica	Eastern oyster	96 hr	EC50	35000.000000	Saltwater	Flow Through
OPP	7747-35-5	Oxazolidine E	Daphnia magna	Water flea	48 hr	EC50	42000.000000	Freshwater	Static
OPP	7747-35-5	Oxazolidine E	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	130000.000000	Freshwater	Static
OPP	7747-35-5	Oxazolidine E	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	221000.000000	Freshwater	Static
OPP	10380-28-6	Oxine-copper	Americamysis bahia	Mysid	96 hr	LC50	49.700000	Saltwater	Flow Through
OPP	10380-28-6	Oxine-copper	Daphnia magna	Water flea	48 hr	EC50	162.000000	Freshwater	Flow Through
OPP	10380-28-6	Oxine-copper	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	21.600000	Freshwater	Flow Through
OPP	10380-28-6	Oxine-copper	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	13.900000	Freshwater	Flow Through
OPP	10380-28-6	Oxine-copper	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	8.900000	Freshwater	Flow Through
OPP	301-12-2	Oxydemeton-methyl	Daphnia magna	Water flea	48 hr	EC50	240.000000	Freshwater	Flow Through
OPP	301-12-2	Oxydemeton-methyl	Gammarus lacustris	Scud	96 hr	LC50	190.000000	Freshwater	Static
OPP	301-12-2	Oxydemeton-methyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1220.000000	Freshwater	Static
OPP	301-12-2	Oxydemeton-methyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	730.000000	Freshwater	Static
OPP	42874-03-3	Oxyfluorfen	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	200.000000	Freshwater	Static
OPP	42874-03-3	Oxyfluorfen	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	410.000000	Freshwater	Flow Through
OPP	2439-01-2	Oxythioquinox	Americamysis bahia	Mysid	96 hr	LC50	8.500000	Saltwater	Flow Through
OPP	2439-01-2	Oxythioquinox	Crassostrea virginica	Eastern oyster	96 hr	EC50	25.300000	Saltwater	Flow Through
OPP	2439-01-2	Oxythioquinox	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	129.000000	Saltwater	Flow Through
OPP	2439-01-2	Oxythioquinox	Daphnia magna	Water flea	48 hr	EC50	120.000000	Freshwater	Static
OPP	2439-01-2	Oxythioquinox	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	33.400000	Freshwater	Flow Through
CERC-GED	2439-01-2	Oxythioquinox	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	74.000000	Freshwater	Static
OPP	2439-01-2	Oxythioquinox	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	128.000000	Freshwater	Flow Through
CERC-GED	2439-01-2	Oxythioquinox	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	260.000000	Freshwater	Static
CERC-GED	10028-15-6	Ozone	Brevoortia tyrannus	Atlantic menhaden	96 hr	LC50	360.000000	Saltwater	Static
CERC-GED	10028-15-6	Ozone	Callinectes sapidus	Blue crab	96 hr	LC50	260.000000	Saltwater	Static
OPP	76738-62-0	Paclobutrazol	Daphnia magna	Water flea	48 hr	EC50	33200.000000	Freshwater	Static
OPP	76738-62-0	Paclobutrazol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	23600.000000	Freshwater	Static
OPP	76738-62-0	Paclobutrazol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	27800.000000	Freshwater	Static
OPP	59-50-7	Parachlorometacresol	Daphnia magna	Water flea	48 hr	EC50	2300.000000	Freshwater	Static
OPP	59-50-7	Parachlorometacresol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	917.000000	Freshwater	Static Renewal
CERC-GED	1910-42-5	Paraquat	Bufo woodhousei fowleri	Fowlers toad	96 hr	LC50	15000.000000	Freshwater	Static
CERC-GED	1910-42-5	Paraquat	Daphnia pulex	Water flea	48 hr	EC50	4000.000000	Freshwater	Static
OPP	1910-42-5	Paraquat	Daphnia sp.	Water flea	48 hr	EC50	1200.000000	Freshwater	Static
CERC-GED	1910-42-5	Paraquat	Gammaurus fasciatus	Scud	96 hr	LC50	11000.000000	Freshwater	Static
CERC-GED	1910-42-5	Paraquat	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	15000.000000	Freshwater	Static
CERC-GED	1910-42-5	Paraquat	Pseudacris triseriata	Western chorus frog	96 hr	LC50	28000.000000	Freshwater	Static
CERC-GED	1910-42-5	Paraquat	Simocephalus serrulatus	Water flea	48 hr	EC50	3700.000000	Freshwater	Static
OPP	56-38-2	Parathion	Americamysis bahia	Mysid	96 hr	LC50	0.120000	Saltwater	Flow Through
CERC-GED	56-38-2	Parathion	Asellus brevicaudus	Aquatic sow bug	96 hr	LC50	213.000000	Freshwater	Static
CERC-GED	56-38-2	Parathion	Asellus brevicaudus	Aquatic sow bug	96 hr	LC50	600.000000	Freshwater	Static
CERC-GED	56-38-2	Parathion	Carassius auratus	Goldfish	96 hr	LC50	1830.000000	Freshwater	Static

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**Appendix 1**  
**Final Acute Toxicity Database**

CERC-GED	56-38-2	Parathion	<i>Claassenia sabulosa</i>	Stonefly	96 hr	LC50	1.500000	Freshwater	Static
CERC-GED	56-38-2	Parathion	<i>Daphnia pulex</i>	Water flea	48 hr	EC50	0.600000	Freshwater	Static
CERC-GED	56-38-2	Parathion	<i>Gambusia affinis</i>	Mosquitofish	96 hr	LC50	320.000000	Freshwater	Static
CERC-GED	56-38-2	Parathion	<i>Gammarus fasciatus</i>	Scud	96 hr	LC50	1.300000	Freshwater	Static
CERC-GED	56-38-2	Parathion	<i>Gammastris lacustris</i>	Scud	96 hr	LC50	3.500000	Freshwater	Static
CERC-GED	56-38-2	Parathion	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	2650.000000	Freshwater	Static
CERC-GED	56-38-2	Parathion	<i>Lepomis cyanellus</i>	Green sunfish	96 hr	LC50	930.000000	Freshwater	Static
OPP	56-38-2	Parathion	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	95.000000	Freshwater	Static
OPP	56-38-2	Parathion	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	161.000000	Freshwater	Flow Through
CERC-GED	56-38-2	Parathion	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	400.000000	Freshwater	Static
OPP	56-38-2	Parathion	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	710.000000	Freshwater	Static
OPP	56-38-2	Parathion	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	780.000000	Freshwater	Flow Through
CERC-GED	56-38-2	Parathion	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	864.000000	Freshwater	Static
CERC-GED	56-38-2	Parathion	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1430.000000	Freshwater	Static
OPP	56-38-2	Parathion	<i>Penaeus aztecus</i>	Brown shrimp	48 hr	LC50	1.000000	Saltwater	Flow Through
OPP	56-38-2	Parathion	<i>Penaeus duorarum</i>	Pink shrimp	48 hr	LC50	0.240000	Saltwater	Flow Through
OPP	56-38-2	Parathion	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	330.000000	Freshwater	Static
OPP	56-38-2	Parathion	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	1300.000000	Freshwater	Static
OPP	56-38-2	Parathion	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	1400.000000	Freshwater	Static
CERC-GED	56-38-2	Parathion	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	2350.000000	Freshwater	Static
CERC-GED	56-38-2	Parathion	<i>Pseudacris triseriata</i>	Western chorus frog	96 hr	LC50	1080.000000	Freshwater	Static
CERC-GED	56-38-2	Parathion	<i>Pteronarcella badia</i>	Stonefly	96 hr	LC50	4.200000	Freshwater	Static
CERC-GED	56-38-2	Parathion	<i>Pteronarcys californica</i>	Stonefly	96 hr	LC50	5.400000	Freshwater	Static
CERC-GED	56-38-2	Parathion	<i>Simocephalus serrulatus</i>	Water flea	48 hr	EC50	0.370000	Freshwater	Static
CERC-GED	56-38-2	Parathion	<i>Simocephalus serrulatus</i>	Water flea	48 hr	EC50	0.470000	Freshwater	Static
OPP	56-38-2	Parathion - Paraoxon (Parathion Degrad)	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	250.000000	Freshwater	Static
OPP	56-38-2	Parathion - Paraoxon (Parathion Degrad)	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	330.000000	Freshwater	Static
CERC-GED	Unknown	Parathion Dithioate Analogue	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	3300.000000	Freshwater	Static
CERC-GED	Unknown	Parathion Dithioate Analogue	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	24.000000	Freshwater	Static
CERC-GED	Unknown	Parathion Dithioate Analogue	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	750.000000	Freshwater	Static
CERC-GED	63449-39-8	Paroil 1032	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	140000.000000	Freshwater	Static
CERC-GED	63449-39-8	Paroil 1048	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	160000.000000	Freshwater	Static
CERC-GED	Unknown	PCB 2,2',4,4',6,6'-Hexachlorobiphenyl	<i>Gammastris pseudolimnaeus</i>	Scud	96 hr	LC50	150.000000	Freshwater	Static
CERC-GED	37680-73-2	PCB 2,2',4,5,5'-Pentachlorobiphenyl	<i>Gammastris pseudolimnaeus</i>	Scud	96 hr	LC50	210.000000	Freshwater	Static
CERC-GED	38444-85-8	PCB 2,3,4'-Trichlorobiphenyl	<i>Gammastris pseudolimnaeus</i>	Scud	96 hr	LC50	70.000000	Freshwater	Static
CERC-GED	33284-50-3	PCB 2,4-Dichlorobiphenyl	<i>Gammastris pseudolimnaeus</i>	Scud	96 hr	LC50	120.000000	Freshwater	Static
CERC-GED	2051-60-7	PCB 2-Chlorobiphenyl	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	794.000000	Freshwater	Static
CERC-GED	2051-61-8	PCB 3-Chlorobiphenyl	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	883.000000	Freshwater	Static
CERC-GED	2050-68-2	PCB 4,4'-Dichlorobiphenyl	<i>Gammastris pseudolimnaeus</i>	Scud	96 hr	LC50	100.000000	Freshwater	Static
CERC-GED	2051-62-9	PCB 4-Chlorobiphenyl	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	720.000000	Freshwater	Static
CERC-GED	12674-11-2	PCB Aroclor 1016	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	135.000000	Freshwater	Static
CERC-GED	12674-11-2	PCB Aroclor 1016	<i>Perca flavescens</i>	Yellow perch	96 hr	LC50	240.000000	Freshwater	Static
CERC-GED	53469-21-9	PCB Aroclor 1242	<i>Macromia sp.</i>	Dragonfly	96 hr	LC50	800.000000	Freshwater	Static
CERC-GED	12672-29-6	PCB Aroclor 1248	<i>Gammastris fasciatus</i>	Scud	96 hr	LC50	52.000000	Freshwater	Static
CERC-GED	11097-69-1	PCB Aroclor 1254	<i>Gammastris fasciatus</i>	Scud	96 hr	LC50	2400.000000	Freshwater	Static
CERC-GED	11097-69-1	PCB Aroclor 1254	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	2740.000000	Freshwater	Static
CERC-GED	11097-69-1	PCB Aroclor 1254	<i>Macromia sp.</i>	Dragonfly	96 hr	LC50	800.000000	Freshwater	Static
OPP	1114-71-2	Pebulate	<i>Daphnia magna</i>	Water flea	48 hr	EC50	6830.000000	Freshwater	Static
OPP	1114-71-2	Pebulate	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	7400.000000	Freshwater	Static
OPP	40487-42-1	Pendimethalin	<i>Cyprinodon variegatus</i>	Sheepshead minnow	96 hr	LC50	710.000000	Saltwater	Static
OPP	40487-42-1	Pendimethalin	<i>Daphnia magna</i>	Water flea	48 hr	EC50	280.000000	Freshwater	Static
OPP	40487-42-1	Pendimethalin	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	418.000000	Freshwater	Static
OPP	40487-42-1	Pendimethalin	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	199.000000	Freshwater	Static
OPP	40487-42-1	Pendimethalin	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	138.000000	Freshwater	Static
OPP	82-68-8	Pentachloronitrobenzene (PCNB)	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	12.000000	Saltwater	Flow Through
OPP	82-68-8	Pentachloronitrobenzene (PCNB)	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	23.000000	Saltwater	Flow Through
OPP	82-68-8	Pentachloronitrobenzene (PCNB)	<i>Crassostrea virginica</i>	Eastern oyster	96 hr	EC50	25.000000	Saltwater	Flow Through
OPP	82-68-8	Pentachloronitrobenzene (PCNB)	<i>Crassostrea virginica</i>	Eastern oyster	96 hr	EC50	29.000000	Saltwater	Flow Through
OPP	82-68-8	Pentachloronitrobenzene (PCNB)	<i>Cyprinodon variegatus</i>	Sheepshead minnow	96 hr	LC50	1500.000000	Saltwater	Flow Through
OPP	82-68-8	Pentachloronitrobenzene (PCNB)	<i>Cyprinodon variegatus</i>	Sheepshead minnow	96 hr	LC50	7900.000000	Saltwater	Flow Through
OPP	82-68-8	Pentachloronitrobenzene (PCNB)	<i>Daphnia magna</i>	Water flea	48 hr	EC50	770.000000	Freshwater	Static
OPP	82-68-8	Pentachloronitrobenzene (PCNB)	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	100.000000	Freshwater	Flow Through
OPP	82-68-8	Pentachloronitrobenzene (PCNB)	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	320.000000	Freshwater	Flow Through

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CERC-GED	87-86-5	Pentachlorophenol	Americanysis bahia	Mysid	96 hr	LC50	320.000000	Saltwater	Static
OPP	87-86-5	Pentachlorophenol	Catostomus commersoni	White sucker	96 hr	LC50	85.000000	Freshwater	Static
CERC-GED	87-86-5	Pentachlorophenol	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	220.000000	Saltwater	Static
CERC-GED	87-86-5	Pentachlorophenol	Daphnia magna	Water flea	48 hr	EC50	240.000000	Freshwater	Static
CERC-GED	87-86-5	Pentachlorophenol	Daphnia magna	Water flea	48 hr	EC50	410.000000	Freshwater	Static
OPP	87-86-5	Pentachlorophenol	Daphnia magna	Water flea	48 hr	EC50	680.000000	Freshwater	Static
ECOTOX	87-86-5	Pentachlorophenol	Gammarus pseudolimnaeus	Scud	96 hr	LC50	280.000000	Freshwater	Flow Through
CERC-GED	87-86-5	Pentachlorophenol	Ictalurus punctatus	Channel catfish	96 hr	LC50	66.000000	Freshwater	Static
CERC-GED	87-86-5	Pentachlorophenol	Ictalurus punctatus	Channel catfish	96 hr	LC50	68.000000	Freshwater	Static
OPP	87-86-5	Pentachlorophenol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	60.000000	Freshwater	Static
OPP	87-86-5	Pentachlorophenol	Micropterus salmoides	Largemouth bass	96 hr	LC50	136.000000	Freshwater	Static
OPP	87-86-5	Pentachlorophenol	Mugil cephalus	Striped mullet	96 hr	LC50	112.000000	Saltwater	Static
CERC-GED	87-86-5	Pentachlorophenol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	52.000000	Freshwater	Static
ECOTOX	87-86-5	Pentachlorophenol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	66.000000	Freshwater	Flow Through
OPP	87-86-5	Pentachlorophenol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	75.000000	Freshwater	Static
OPP	87-86-5	Pentachlorophenol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	115.000000	Freshwater	Static
CERC-GED	87-86-5	Pentachlorophenol	Oncorhynchus tshawytscha	Chinook salmon	96 hr	LC50	31.000000	Freshwater	Static
CERC-GED	87-86-5	Pentachlorophenol	Oncorhynchus tshawytscha	Chinook salmon	96 hr	LC50	68.000000	Freshwater	Static
CERC-GED	87-86-5	Pentachlorophenol	Palaemonetes pugio	Grass shrimp	96 hr	LC50	2500.000000	Saltwater	Static
OPP	87-86-5	Pentachlorophenol	Pimephales promelas	Fathead minnow	96 hr	LC50	194.000000	Freshwater	Flow Through
OPP	87-86-5	Pentachlorophenol	Salmo salar	Atlantic salmon	96 hr	LC50	500.000000	Freshwater	Static
ECOTOX	87-86-5	Pentachlorophenol	Tanytarsus dissimilis	Midge	48 hr	LC50	46000.000000	Freshwater	Static
CERC-GED	87-86-5	Pentachlorophenol, (Dowicide EC-7)	Daphnia magna	Water flea	48 hr	EC50	320.000000	Freshwater	Static
CERC-GED	15773-35-0	Pentachlorophenol, Copper Salt	Chironomus plumosus	Midge	48 hr	EC50	720.000000	Freshwater	Static
CERC-GED	15773-35-0	Pentachlorophenol, Copper Salt	Daphnia magna	Water flea	48 hr	EC50	920.000000	Freshwater	Static
CERC-GED	15773-35-0	Pentachlorophenol, Copper Salt	Ictalurus punctatus	Channel catfish	96 hr	LC50	26.000000	Freshwater	Static
CERC-GED	131-52-2	Pentachlorophenol, Sodium salt	Ictalurus punctatus	Channel catfish	96 hr	LC50	77.000000	Freshwater	Static
CERC-GED	131-52-2	Pentachlorophenol, Sodium salt	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	55.000000	Freshwater	Static
CERC-GED	131-52-2	Pentachlorophenol, Sodium salt	Oncorhynchus tshawytscha	Chinook salmon	96 hr	LC50	67.500000	Freshwater	Static
OPP	52645-53-1	Permethrin	Americanysis bahia	Mysid	96 hr	LC50	0.020000	Saltwater	Flow Through
CERC-GED	52645-53-1	Permethrin	Americanysis bahia	Mysid	96 hr	LC50	0.046000	Saltwater	Static
OPP	52645-53-1	Permethrin	Americanysis bahia	Mysid	96 hr	LC50	0.075000	Saltwater	Static
CERC-GED	52645-53-1	Permethrin	Chironomus plumosus	Midge	48 hr	EC50	0.560000	Freshwater	Static
CERC-GED	52645-53-1	Permethrin	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	88.000000	Saltwater	Static
OPP	52645-53-1	Permethrin	Cyprinus carpio	Common carp	96 hr	LC50	15.000000	Freshwater	Flow Through
OPP	52645-53-1	Permethrin	Daphnia magna	Water flea	48 hr	EC50	0.380000	Freshwater	Static
OPP	52645-53-1	Permethrin	Daphnia magna	Water flea	48 hr	EC50	0.600000	Freshwater	Static
CERC-GED	52645-53-1	Permethrin	Daphnia magna	Water flea	48 hr	EC50	1.260000	Freshwater	Static
OPP	52645-53-1	Permethrin	Daphnia magna	Water flea	48 hr	EC50	7.200000	Freshwater	Static
CERC-GED	52645-53-1	Permethrin	Gammarus pseudolimnaeus	Scud	96 hr	LC50	0.170000	Freshwater	Static
OPP	52645-53-1	Permethrin	Hexagenia bilineata	Mayfly	96 hr	LC50	0.100000	Freshwater	Flow Through
OPP	52645-53-1	Permethrin	Ictalurus punctatus	Channel catfish	96 hr	LC50	5.400000	Freshwater	Static
CERC-GED	52645-53-1	Permethrin	Ictalurus punctatus	Channel catfish	96 hr	LC50	7.200000	Freshwater	Static
OPP	52645-53-1	Permethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	0.790000	Freshwater	Flow Through
OPP	52645-53-1	Permethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2.520000	Freshwater	Static
CERC-GED	52645-53-1	Permethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	5.000000	Freshwater	Static
OPP	52645-53-1	Permethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6.100000	Freshwater	Static
OPP	52645-53-1	Permethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6.800000	Freshwater	Static
CERC-GED	52645-53-1	Permethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	7.100000	Freshwater	Static
CERC-GED	52645-53-1	Permethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	7.600000	Freshwater	Static
CERC-GED	52645-53-1	Permethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	8.000000	Freshwater	Static
OPP	52645-53-1	Permethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	13.300000	Freshwater	Static
OPP	52645-53-1	Permethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	13.500000	Freshwater	Static
OPP	52645-53-1	Permethrin	Menidia menidia	Atlantic silverside	96 hr	LC50	2.200000	Saltwater	Flow Through
CERC-GED	52645-53-1	Permethrin	Menippus mercenaria	Stone crab	96 hr	LC50	0.018000	Saltwater	Static
OPP	52645-53-1	Permethrin	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	17.000000	Freshwater	Static
OPP	52645-53-1	Permethrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2.100000	Freshwater	Flow Through
CERC-GED	52645-53-1	Permethrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4.100000	Freshwater	Static
OPP	52645-53-1	Permethrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	5.300000	Freshwater	Static
CERC-GED	52645-53-1	Permethrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	7.000000	Freshwater	Static
OPP	52645-53-1	Permethrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	9.800000	Freshwater	Static
OPP	52645-53-1	Permethrin	Pimephales promelas	Fathead minnow	96 hr	LC50	3.000000	Freshwater	Static
CERC-GED	52645-53-1	Permethrin	Pimephales promelas	Fathead minnow	96 hr	LC50	5.700000	Freshwater	Static

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**Appendix 1**  
**Final Acute Toxicity Database**

OPP	52645-53-1	Permethrin	Salmo salar	Atlantic salmon	96 hr	LC50	1.500000	Freshwater	Static
CERC-GED	52645-53-1	Permethrin	Salvelinus fontinalis	Brook trout	96 hr	LC50	3.200000	Freshwater	Static
OPP	52645-53-1	Permethrin	Salvelinus fontinalis	Brook trout	96 hr	LC50	3.900000	Freshwater	Static
OPP	52645-53-1	Permethrin	Uca pugilator	Fiddler crab	96 hr	LC50	2.390000	Saltwater	Static
OPP	13684-63-4	Phenmedipham	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3980.000000	Freshwater	Static
OPP	13684-63-4	Phenmedipham	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1410.000000	Freshwater	Static
ECOTOX	108-95-2	Phenol	Daphnia magna	Water flea	48 hr	LC50	88000.000000	Freshwater	Static
ECOTOX	108-95-2	Phenol	Daphnia magna	Water flea	48 hr	LC50	91000.000000	Freshwater	Static
ECOTOX	108-95-2	Phenol	Daphnia magna	Water flea	48 hr	LC50	91200.000000	Freshwater	Static
ECOTOX	108-95-2	Phenol	Daphnia magna	Water flea	48 hr	LC50	92000.000000	Freshwater	Static
ECOTOX	108-95-2	Phenol	Daphnia magna	Water flea	48 hr	LC50	100000.000000	Freshwater	Static
ECOTOX	108-95-2	Phenol	Daphnia pulex	Water flea	48 hr	LC50	79000.000000	Freshwater	Static
ECOTOX	108-95-2	Phenol	Daphnia pulex	Water flea	48 hr	LC50	81000.000000	Freshwater	Static
ECOTOX	108-95-2	Phenol	Daphnia pulex	Water flea	48 hr	LC50	85000.000000	Freshwater	Static
ECOTOX	108-95-2	Phenol	Daphnia pulex	Water flea	48 hr	LC50	87800.000000	Freshwater	Static
ECOTOX	108-95-2	Phenol	Daphnia pulex	Water flea	48 hr	LC50	93000.000000	Freshwater	Static
OPP	32289-58-0	PHMB	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	110.000000	Freshwater	Static
OPP	298-02-2	Phorate	Americanays bahia	Mysid	96 hr	LC50	0.330000	Saltwater	Flow Through
CERC-GED	298-02-2	Phorate	Americanays bahia	Mysid	96 hr	LC50	1.900000	Saltwater	Static
OPP	298-02-2	Phorate	Crassostrea virginica	Eastern oyster	96 hr	EC50	640.000000	Saltwater	Flow Through
CERC-GED	298-02-2	Phorate	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	4.000000	Saltwater	Static
OPP	298-02-2	Phorate	Gammarus fasciatus	Scud	96 hr	LC50	0.600000	Freshwater	Static
CERC-GED	298-02-2	Phorate	Gammarus fasciatus	Scud	96 hr	LC50	0.680000	Freshwater	Static
OPP	298-02-2	Phorate	Gammarus fasciatus	Scud	96 hr	LC50	4.000000	Freshwater	Static
OPP	298-02-2	Phorate	Gammarus lacustris	Scud	96 hr	LC50	9.000000	Freshwater	Static
CERC-GED	298-02-2	Phorate	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	44.000000	Freshwater	Static
CERC-GED	298-02-2	Phorate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	13.000000	Freshwater	Static
OPP	298-02-2	Phorate	Penaeus aztecus	Brown shrimp	48 hr	LC50	0.460000	Saltwater	Flow Through
CERC-GED	298-02-2	Phorate	Penaeus stylostris	White shrimp	96 hr	LC50	0.270000	Saltwater	Static
CERC-GED	4104-14-7	Phorazetim	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	440.000000	Freshwater	Static
CERC-GED	56646-05-0	Phos-Check 202	Gammarus pseudolimnaeus	Scud	96 hr	LC50	52000.000000	Freshwater	Static
CERC-GED	56646-05-0	Phos-Check 202	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	840000.000000	Freshwater	Static
CERC-GED	56646-05-0	Phos-Check 202	Micropterus salmoides	Largemouth bass	96 hr	LC50	840000.000000	Freshwater	Static
CERC-GED	56646-05-0	Phos-Check 202	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	320000.000000	Freshwater	Static
CERC-GED	56646-05-0	Phos-Check 202	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	230000.000000	Freshwater	Static
CERC-GED	56646-05-0	Phos-Check 202	Pimephales promelas	Fathead minnow	96 hr	LC50	650000.000000	Freshwater	Static
CERC-GED	39341-15-6	Phos-Check 259	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	350000.000000	Freshwater	Static
CERC-GED	39341-15-6	Phos-Check 259	Micropterus salmoides	Largemouth bass	96 hr	LC50	450000.000000	Freshwater	Static
CERC-GED	39341-15-6	Phos-Check 259	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	250000.000000	Freshwater	Static
CERC-GED	39341-15-6	Phos-Check 259	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	160000.000000	Freshwater	Static
CERC-GED	39341-15-6	Phos-Check 259	Pimephales promelas	Fathead minnow	96 hr	LC50	300000.000000	Freshwater	Static
CERC-GED	96300-97-9	Phosflex 31P	Chironomus plumosus	Midge	48 hr	EC50	1800.000000	Freshwater	Static
CERC-GED	96300-97-9	Phosflex 31P	Daphnia magna	Water flea	48 hr	EC50	6800.000000	Freshwater	Static
CERC-GED	96300-97-9	Phosflex 31P	Gammarus pseudolimnaeus	Scud	96 hr	LC50	2200.000000	Freshwater	Static
CERC-GED	96300-97-9	Phosflex 31P	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2000.000000	Freshwater	Static
CERC-GED	96300-97-9	Phosflex 31P	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2500.000000	Freshwater	Static
CERC-GED	96300-97-9	Phosflex 31P	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2600.000000	Freshwater	Static
CERC-GED	96300-97-9	Phosflex 31P	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3500.000000	Freshwater	Static
CERC-GED	96300-97-9	Phosflex 31P	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	880.000000	Freshwater	Static
CERC-GED	96300-97-9	Phosflex 31P	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1500.000000	Freshwater	Static
CERC-GED	96300-97-9	Phosflex 31P	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1900.000000	Freshwater	Static
CERC-GED	96300-97-9	Phosflex 31P	Pimephales promelas	Fathead minnow	96 hr	LC50	1700.000000	Freshwater	Static
OPP	732-11-6	Phosmet	Americanays bahia	Mysid	96 hr	LC50	16.000000	Saltwater	Static
CERC-GED	732-11-6	Phosmet	Asellus brevicaudus	Aquatic sow bug	96 hr	LC50	90.000000	Freshwater	Static
CERC-GED	732-11-6	Phosmet	Chironomus plumosus	Midge	48 hr	LC50	3150.000000	Freshwater	Static
CERC-GED	732-11-6	Phosmet	Gammarus fasciatus	Scud	96 hr	LC50	2.000000	Freshwater	Static
CERC-GED	732-11-6	Phosmet	Ictalurus punctatus	Channel catfish	96 hr	LC50	10600.000000	Freshwater	Static
CERC-GED	732-11-6	Phosmet	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	70.000000	Freshwater	Static
OPP	732-11-6	Phosmet	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	122.000000	Freshwater	Static
CERC-GED	732-11-6	Phosmet	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	200.000000	Freshwater	Static
OPP	732-11-6	Phosmet	Mercenaria mercenaria	Quahog clam	48 hr	EC50	94000.000000	Saltwater	Static
CERC-GED	732-11-6	Phosmet	Micropterus dolomieu	Smallmouth bass	96 hr	LC50	150.000000	Freshwater	Static
CERC-GED	732-11-6	Phosmet	Micropterus salmoides	Largemouth bass	96 hr	LC50	160.000000	Freshwater	Static

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**Appendix 1**  
**Final Acute Toxicity Database**

OPP	732-11-6	Phosmet	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	230.000000	Freshwater	Static
CERC-GED	732-11-6	Phosmet	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	300.000000	Freshwater	Static
CERC-GED	732-11-6	Phosmet	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	480.000000	Freshwater	Static
CERC-GED	732-11-6	Phosmet	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	560.000000	Freshwater	Static
CERC-GED	732-11-6	Phosmet	Oncorhynchus tshawytscha	Chinook salmon	96 hr	LC50	150.000000	Freshwater	Static
OPP	732-11-6	Phosmet	Penaeus aztecus	Brown shrimp	48 hr	LC50	2.500000	Saltwater	Flow Through
CERC-GED	732-11-6	Phosmet	Streptocephalus sp.	Fairy shrimp	48 hr	LC50	170.000000	Freshwater	Static
OPP	13171-21-6	Phosphamidon	Americamysis bahia	Mysid	96 hr	LC50	119.000000	Saltwater	Flow Through
OPP	13171-21-6	Phosphamidon	Crassostrea virginica	Eastern oyster	96 hr	EC50	79000.000000	Saltwater	Flow Through
OPP	13171-21-6	Phosphamidon	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	74000.000000	Saltwater	Flow Through
OPP	13171-21-6	Phosphamidon	Daphnia magna	Water flea	48 hr	EC50	12.700000	Freshwater	Static
CERC-GED	13171-21-6	Phosphamidon	Daphnia pulex	Water flea	48 hr	EC50	10.000000	Freshwater	Static
CERC-GED	13171-21-6	Phosphamidon	Gammarus fasciatus	Scud	96 hr	LC50	3.000000	Freshwater	Static
CERC-GED	13171-21-6	Phosphamidon	Gammarus fasciatus	Scud	96 hr	LC50	13.000000	Freshwater	Static
OPP	13171-21-6	Phosphamidon	Gammarus fasciatus	Scud	96 hr	LC50	16.000000	Freshwater	Static
OPP	13171-21-6	Phosphamidon	Gammarus lacustris	Scud	96 hr	LC50	2.800000	Freshwater	Static
CERC-GED	13171-21-6	Phosphamidon	Ictalurus punctatus	Channel catfish	96 hr	LC50	70000.000000	Freshwater	Static
CERC-GED	13171-21-6	Phosphamidon	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	7800.000000	Freshwater	Static
OPP	13171-21-6	Phosphamidon	Orconectes nais	Crayfish	96 hr	LC50	7500.000000	Freshwater	Static
OPP	13171-21-6	Phosphamidon	Penaeus duorarum	Pink shrimp	48 hr	LC50	240.000000	Saltwater	Flow Through
CERC-GED	13171-21-6	Phosphamidon	Pimephales promelas	Fathead minnow	96 hr	LC50	100000.000000	Freshwater	Static
CERC-GED	13171-21-6	Phosphamidon	Pteronarcys californica	Stonefly	96 hr	LC50	150.000000	Freshwater	Static
CERC-GED	13171-21-6	Phosphamidon	Simocephalus serrulatus	Water flea	48 hr	EC50	6.600000	Freshwater	Static
CERC-GED	13171-21-6	Phosphamidon	Simocephalus serrulatus	Water flea	48 hr	EC50	12.000000	Freshwater	Static
OPP	96182-53-5	Phostebupirim	Americamysis bahia	Mysid	96 hr	LC50	6.630000	Saltwater	Flow Through
OPP	96182-53-5	Phostebupirim	Daphnia magna	Water flea	48 hr	EC50	0.078000	Freshwater	Flow Through
OPP	96182-53-5	Phostebupirim	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	89.000000	Freshwater	Flow Through
OPP	96182-53-5	Phostebupirim	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2220.000000	Freshwater	Static
CERC-GED	14816-18-3	Phoxim	Ictalurus punctatus	Channel catfish	96 hr	LC50	1210.000000	Freshwater	Static
CERC-GED	14816-18-3	Phoxim	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	82.000000	Freshwater	Static
CERC-GED	14816-18-3	Phoxim	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	196.000000	Freshwater	Static
CERC-GED	14816-18-3	Phoxim	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	407.000000	Freshwater	Static
CERC-GED	14816-18-3	Phoxim	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	550.000000	Freshwater	Static
CERC-GED	14816-18-3	Phoxim	Perca flavescens	Yellow perch	96 hr	LC50	563.000000	Freshwater	Static
CERC-GED	14816-18-3	Phoxim	Procambarus sp.	Crayfish	96 hr	LC50	6.600000	Freshwater	Static
CERC-GED	14816-18-3	Phoxim	Salmo salar	Atlantic salmon	96 hr	LC50	380.000000	Freshwater	Static
CERC-GED	14816-18-3	Phoxim	Salmo trutta	Brown trout	96 hr	LC50	210.000000	Freshwater	Static
CERC-GED	14816-18-3	Phoxim	Salvelinus fontinalis	Brook trout	96 hr	LC50	432.000000	Freshwater	Static
OPP	1918-02-1	Picloram	Daphnia magna	Water flea	48 hr	EC50	68300.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Daphnia magna	Water flea	48 hr	EC50	76000.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Gammarus fasciatus	Scud	96 hr	LC50	27000.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Gammarus pseudolimnaeus	Scud	96 hr	LC50	16500.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Ictalurus punctatus	Channel catfish	96 hr	LC50	1400.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Ictalurus punctatus	Channel catfish	96 hr	LC50	6300.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Ictalurus punctatus	Channel catfish	96 hr	LC50	13000.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Ictalurus punctatus	Channel catfish	96 hr	LC50	15500.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Ictalurus punctatus	Channel catfish	96 hr	LC50	22000.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	18000.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	23000.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	26000.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	31000.000000	Freshwater	Static
OPP	1918-02-1	Picloram	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	1500.000000	Freshwater	Flow Through
CERC-GED	1918-02-1	Picloram	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	3700.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	4700.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	4800.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	5000.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	5400.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	5800.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	6400.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4000.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6000.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	11000.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	12500.000000	Freshwater	Static

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CERC-GED	1918-02-1	Picloram	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	14000.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Pteronarcys californica	Stonefly	96 hr	LC50	48000.000000	Freshwater	Static
OPP	1918-02-1	Picloram	Salvelinus namaycush	Lake trout	96 hr	LC50	1900.000000	Freshwater	Flow Through
CERC-GED	1918-02-1	Picloram	Salvelinus namaycush	Lake trout	96 hr	LC50	2200.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Salvelinus namaycush	Lake trout	96 hr	LC50	2700.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Salvelinus namaycush	Lake trout	96 hr	LC50	3500.000000	Freshwater	Static
CERC-GED	1918-02-1	Picloram	Salvelinus namaycush	Lake trout	96 hr	LC50	4300.000000	Freshwater	Static
OPP	6753-47-5	Picloram TIPA	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	37500.000000	Freshwater	Static
OPP	2545-60-0	Picloram, potassium salt	Ictalurus punctatus	Channel catfish	96 hr	LC50	14000.000000	Freshwater	Static
OPP	2545-60-0	Picloram, potassium salt	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	13000.000000	Freshwater	Static
OPP	8002-09-3	Pine oil	Daphnia magna	Water flea	48 hr	EC50	24500.000000	Freshwater	Flow Through
OPP	8002-09-3	Pine oil	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	54820.000000	Freshwater	Flow Through
OPP	8002-09-3	Pine oil	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	18350.000000	Freshwater	Flow Through
OPP	3478-94-2	Piperalin	Daphnia magna	Water flea	48 hr	EC50	1890.000000	Freshwater	Static Renewal
OPP	3478-94-2	Piperalin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	770.000000	Freshwater	Flow Through
OPP	51-03-6	Piperonyl butoxide	Ameiurus melas	Black bullhead	96 hr	LC50	5650.000000	Freshwater	Static
OPP	51-03-6	Piperonyl butoxide	Carassius auratus	Goldfish	96 hr	LC50	5320.000000	Freshwater	Static
OPP	51-03-6	Piperonyl butoxide	Catostomus commersoni	White sucker	96 hr	LC50	6950.000000	Freshwater	Static
OPP	51-03-6	Piperonyl butoxide	Crassostrea virginica	Eastern oyster	96 hr	EC50	230.000000	Saltwater	Flow Through
OPP	51-03-6	Piperonyl butoxide	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	1800.000000	Saltwater	Static
OPP	51-03-6	Piperonyl butoxide	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	3940.000000	Saltwater	Flow Through
OPP	51-03-6	Piperonyl butoxide	Cyprinus carpio	Common carp	96 hr	LC50	4220.000000	Freshwater	Static
OPP	51-03-6	Piperonyl butoxide	Daphnia magna	Water flea	48 hr	EC50	510.000000	Freshwater	Flow Through
OPP	51-03-6	Piperonyl butoxide	Ictalurus punctatus	Channel catfish	96 hr	LC50	6400.000000	Freshwater	Static
OPP	51-03-6	Piperonyl butoxide	Lepomis cyanellus	Green sunfish	96 hr	LC50	12200.000000	Freshwater	Static
OPP	51-03-6	Piperonyl butoxide	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4000.000000	Freshwater	Static
CERC-GED	51-03-6	Piperonyl butoxide	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4200.000000	Freshwater	Static
OPP	51-03-6	Piperonyl butoxide	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	5370.000000	Freshwater	Flow Through
CERC-GED	51-03-6	Piperonyl butoxide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1900.000000	Freshwater	Static
OPP	51-03-6	Piperonyl butoxide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2820.000000	Freshwater	Static
CERC-GED	51-03-6	Piperonyl butoxide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3400.000000	Freshwater	Static
OPP	51-03-6	Piperonyl butoxide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6100.000000	Freshwater	Flow Through
OPP	51-03-6	Piperonyl butoxide	Perca flavescens	Yellow perch	96 hr	LC50	6900.000000	Freshwater	Static
OPP	51-03-6	Piperonyl butoxide	Pimephales promelas	Fathead minnow	96 hr	LC50	6200.000000	Freshwater	Static
OPP	23103-98-2	Pirimicarb	Daphnia magna	Water flea	48 hr	EC50	6.500000	Freshwater	Static
OPP	23103-98-2	Pirimicarb	Daphnia magna	Water flea	48 hr	EC50	19.000000	Freshwater	Static
OPP	23103-98-2	Pirimicarb	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	55000.000000	Freshwater	Flow Through
OPP	23103-98-2	Pirimicarb	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	29000.000000	Freshwater	Flow Through
OPP	29232-93-7	Pirimiphos-methyl	Daphnia magna	Water flea	48 hr	EC50	0.210000	Freshwater	Static
OPP	83-26-1	Pival	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1600.000000	Freshwater	Static
OPP	83-26-1	Pival	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	210.000000	Freshwater	Static
OPP	52292-17-8	POE Isooctadecanol	Americamysis bahia	Mysid	96 hr	LC50	9000.000000	Saltwater	Static
OPP	52292-17-8	POE Isooctadecanol	Crassostrea virginica	Eastern oyster	96 hr	EC50	1500.000000	Saltwater	Flow Through
OPP	52292-17-8	POE Isooctadecanol	Daphnia magna	Water flea	48 hr	EC50	1900.000000	Freshwater	Static
OPP	52292-17-8	POE Isooctadecanol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	29000.000000	Freshwater	Static
OPP	52292-17-8	POE Isooctadecanol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	98000.000000	Freshwater	Static
ECOTOX	7447-40-7	Potassium chloride	Daphnia magna	Water flea	48 hr	EC50	83000.000000	Freshwater	Static
ECOTOX	7447-40-7	Potassium chloride	Daphnia magna	Water flea	48 hr	EC50	93000.000000	Freshwater	Static
ECOTOX	7447-40-7	Potassium chloride	Daphnia magna	Water flea	48 hr	EC50	149000.000000	Freshwater	Static
ECOTOX	7447-40-7	Potassium chloride	Daphnia magna	Water flea	48 hr	EC50	166000.000000	Freshwater	Static
OPP	2244-21-5	Potassium dichloroisocyanurate	Daphnia magna	Water flea	48 hr	EC50	170.000000	Freshwater	Static
OPP	2244-21-5	Potassium dichloroisocyanurate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	490.000000	Freshwater	Static
OPP	2244-21-5	Potassium dichloroisocyanurate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	316.000000	Freshwater	Static
OPP	2244-21-5	Potassium dichloroisocyanurate	Salvelinus fontinalis	Brook trout	96 hr	LC50	278.000000	Freshwater	Static
CERC-GED	7778-50-9	Potassium chromate	Leiostomus xanthurus	Spot	96 hr	LC50	27000.000000	Saltwater	Static
CERC-GED	7778-50-9	Potassium chromate	Menidia peninsulae	Tidewater silverside	96 hr	LC50	22000.000000	Saltwater	Static
OPP	7722-64-7	Potassium permanganate	Daphnia magna	Water flea	48 hr	EC50	84.000000	Freshwater	Static
OPP	7722-64-7	Potassium permanganate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2300.000000	Freshwater	Flow Through
OPP	7722-64-7	Potassium permanganate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2700.000000	Freshwater	Static
OPP	23031-36-9	Prallethrin	Daphnia magna	Water flea	48 hr	EC50	6.200000	Freshwater	Flow Through
OPP	23031-36-9	Prallethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	22.000000	Freshwater	Flow Through
OPP	23031-36-9	Prallethrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	12.000000	Freshwater	Flow Through
OPP	86209-51-0	Primsulfuron-methyl	Americamysis bahia	Mysid	96 hr	LC50	16000.000000	Saltwater	Static

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OPP	86209-51-0	Primsulfuron-methyl	Americamysis bahia	Mysid	96 hr	LC50	62000.000000	Saltwater	Static
OPP	86209-51-0	Primsulfuron-methyl	Mercenaria mercenaria	Quahog clam	48 hr	EC50	55000.000000	Saltwater	Static
OPP	86209-51-0	Primsulfuron-methyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	210000.000000	Freshwater	Static
OPP	29091-21-2	Prodiamine	Americamysis bahia	Mysid	96 hr	LC50	2100.000000	Saltwater	Static
OPP	29091-21-2	Prodiamine	Crassostrea virginica	Eastern oyster	96 hr	EC50	370.000000	Saltwater	Flow Through
OPP	29091-21-2	Prodiamine	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3180.000000	Freshwater	Static
OPP	41198-08-7	Profenofos	Americamysis bahia	Mysid	96 hr	LC50	2,400000	Saltwater	Flow Through
CERC-GED	41198-08-7	Profenofos	Chironomus plumosus	Midge	48 hr	EC50	1.000000	Freshwater	Static
OPP	41198-08-7	Profenofos	Crassostrea virginica	Eastern oyster	96 hr	EC50	263.000000	Saltwater	Flow Through
OPP	41198-08-7	Profenofos	Daphnia magna	Water flea	48 hr	EC50	0.930000	Freshwater	Static
CERC-GED	41198-08-7	Profenofos	Daphnia magna	Water flea	48 hr	EC50	1.400000	Freshwater	Static
OPP	41198-08-7	Profenofos	Daphnia magna	Water flea	48 hr	EC50	2,800000	Freshwater	Static
CERC-GED	41198-08-7	Profenofos	Gammarus pseudolimnaeus	Scud	96 hr	LC50	0.800000	Freshwater	Static
CERC-GED	41198-08-7	Profenofos	Ictalurus punctatus	Channel catfish	96 hr	LC50	18.000000	Freshwater	Static
OPP	41198-08-7	Profenofos	Ictalurus punctatus	Channel catfish	96 hr	LC50	21.000000	Freshwater	Static
OPP	41198-08-7	Profenofos	Lagodon rhomboides	Pinfish	96 hr	LC50	7.700000	Saltwater	Static
CERC-GED	41198-08-7	Profenofos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	13.500000	Freshwater	Static
OPP	41198-08-7	Profenofos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	19.000000	Freshwater	Static
OPP	41198-08-7	Profenofos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	41.000000	Freshwater	Static
OPP	41198-08-7	Profenofos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	21.000000	Freshwater	Static
CERC-GED	41198-08-7	Profenofos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	23.500000	Freshwater	Static
OPP	41198-08-7	Profenofos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	25.000000	Freshwater	Static
OPP	1610-18-0	Prometon	Americamysis bahia	Mysid	96 hr	LC50	17700.000000	Saltwater	Static
OPP	1610-18-0	Prometon	Crassostrea virginica	Eastern oyster	96 hr	EC50	27500.000000	Saltwater	Flow Through
OPP	1610-18-0	Prometon	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	47300.000000	Saltwater	Static
OPP	1610-18-0	Prometon	Daphnia magna	Water flea	48 hr	EC50	25700.000000	Freshwater	Static
OPP	1610-18-0	Prometon	Daphnia magna	Water flea	48 hr	EC50	59800.000000	Freshwater	Static
OPP	1610-18-0	Prometon	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	41500.000000	Freshwater	Static
OPP	1610-18-0	Prometon	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	19600.000000	Freshwater	Static
OPP	1610-18-0	Prometon	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	20000.000000	Freshwater	Static
OPP	7287-19-6	Prometryn	Americamysis bahia	Mysid	96 hr	LC50	1700.000000	Saltwater	Static
OPP	7287-19-6	Prometryn	Carassius auratus	Goldfish	96 hr	LC50	4000.000000	Freshwater	Static
OPP	7287-19-6	Prometryn	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	5100.000000	Saltwater	Static
OPP	7287-19-6	Prometryn	Daphnia magna	Water flea	48 hr	EC50	18590.000000	Freshwater	Static
OPP	7287-19-6	Prometryn	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	10000.000000	Freshwater	Static
OPP	7287-19-6	Prometryn	Mercenaria mercenaria	Quahog clam	48 hr	EC50	21000.000000	Saltwater	Static
OPP	7287-19-6	Prometryn	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2900.000000	Freshwater	Static
CERC-GED	1918-16-7	Propachlor	Chironomus plumosus	Midge	48 hr	EC50	790.000000	Freshwater	Static
CERC-GED	1918-16-7	Propachlor	Daphnia magna	Water flea	48 hr	EC50	6900.000000	Freshwater	Static
OPP	1918-16-7	Propachlor	Daphnia magna	Water flea	48 hr	EC50	7800.000000	Freshwater	Static
CERC-GED	1918-16-7	Propachlor	Ictalurus punctatus	Channel catfish	96 hr	LC50	230.000000	Freshwater	Static
OPP	1918-16-7	Propachlor	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	170.000000	Freshwater	Static
OPP	709-98-8	Propanil	Americamysis bahia	Mysid	96 hr	LC50	400.000000	Saltwater	Flow Through
OPP	709-98-8	Propanil	Crassostrea virginica	Eastern oyster	96 hr	EC50	4960.000000	Saltwater	Flow Through
OPP	709-98-8	Propanil	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	4600.000000	Saltwater	Flow Through
OPP	2312-35-8	Propargite	Daphnia magna	Water flea	48 hr	EC50	91.000000	Freshwater	Static
OPP	2312-35-8	Propargite	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	167.000000	Freshwater	Static
OPP	2312-35-8	Propargite	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	118.000000	Freshwater	Static
OPP	2312-35-8	Propargite	Palaemonetes pugio	Grass shrimp	96 hr	LC50	101.000000	Saltwater	Static
OPP	31218-83-4	Propetamphos	Daphnia magna	Water flea	48 hr	EC50	3.300000	Freshwater	Flow Through
OPP	31218-83-4	Propetamphos	Daphnia magna	Water flea	48 hr	EC50	14.000000	Freshwater	Static
OPP	31218-83-4	Propetamphos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	190.000000	Freshwater	Static
OPP	31218-83-4	Propetamphos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1100.000000	Freshwater	Flow Through
OPP	31218-83-4	Propetamphos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	940.000000	Freshwater	Static
OPP	31218-83-4	Propetamphos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2600.000000	Freshwater	Flow Through
CERC-GED	122-42-9	Propham	Daphnia pulex	Water flea	48 hr	EC50	8100.000000	Freshwater	Static
CERC-GED	122-42-9	Propham	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	38000.000000	Freshwater	Static
CERC-GED	122-42-9	Propham	Simocephalus serrulatus	Water flea	48 hr	EC50	10000.000000	Freshwater	Static
OPP	60207-90-1	Propiconazole	Americamysis bahia	Mysid	96 hr	LC50	510.000000	Saltwater	Static
OPP	60207-90-1	Propiconazole	Cyprinus carpio	Common carp	96 hr	LC50	5700.000000	Freshwater	Static
OPP	60207-90-1	Propiconazole	Daphnia magna	Water flea	48 hr	EC50	4800.000000	Freshwater	Static
OPP	60207-90-1	Propiconazole	Daphnia magna	Water flea	48 hr	EC50	11300.000000	Freshwater	Static
OPP	60207-90-1	Propiconazole	Ictalurus punctatus	Channel catfish	96 hr	LC50	4870.000000	Freshwater	Static

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OPP	60207-90-1	Propiconazole	Ictalurus punctatus	Channel catfish	96 hr	LC50	12000.000000	Freshwater	Static
OPP	60207-90-1	Propiconazole	Leiostomus xanthurus	Spot	96 hr	LC50	2200.000000	Saltwater	Static
OPP	60207-90-1	Propiconazole	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1300.000000	Freshwater	Static
OPP	60207-90-1	Propiconazole	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	5500.000000	Freshwater	Static
OPP	60207-90-1	Propiconazole	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	830.000000	Freshwater	Static
OPP	60207-90-1	Propiconazole	Procambarus sp.	Crayfish	96 hr	LC50	49000.000000	Freshwater	Static
OPP	114-26-1	Propoxur	Carassius auratus	Goldfish	96 hr	LC50	50000.000000	Freshwater	Static
OPP	114-26-1	Propoxur	Daphnia magna	Water flea	48 hr	EC50	11.000000	Freshwater	Static
CERC-GED	114-26-1	Propoxur	Gammarus lacustris	Scud	96 hr	LC50	34.000000	Freshwater	Static
OPP	114-26-1	Propoxur	Ictalurus punctatus	Channel catfish	96 hr	LC50	1300.000000	Freshwater	Static
OPP	114-26-1	Propoxur	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6100.000000	Freshwater	Static
OPP	114-26-1	Propoxur	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6200.000000	Freshwater	Static
OPP	114-26-1	Propoxur	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6600.000000	Freshwater	Static
OPP	114-26-1	Propoxur	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3700.000000	Freshwater	Static
OPP	114-26-1	Propoxur	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4000.000000	Freshwater	Static
CERC-GED	114-26-1	Propoxur	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	8200.000000	Freshwater	Static
OPP	114-26-1	Propoxur	Penaeus duorarum	Pink shrimp	48 hr	LC50	41.000000	Saltwater	Flow Through
CERC-GED	114-26-1	Propoxur	Pimephales promelas	Fathead minnow	96 hr	LC50	25000.000000	Freshwater	Static
CERC-GED	114-26-1	Propoxur	Pteronarcys californica	Stonefly	96 hr	LC50	18.000000	Freshwater	Static
OPP	79-09-4	Propionic acid	Daphnia magna	Water flea	48 hr	EC50	22700.000000	Freshwater	Static
OPP	79-09-4	Propionic acid	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	85300.000000	Freshwater	Static
OPP	79-09-4	Propionic acid	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	115000.000000	Freshwater	Static
OPP	79-09-4	Propionic acid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	51000.000000	Freshwater	Static
OPP	79-09-4	Propionic acid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	67100.000000	Freshwater	Static
CERC-GED	83-59-0	Propyl Isome	Ictalurus punctatus	Channel catfish	96 hr	LC50	13.000000	Freshwater	Static
CERC-GED	57-55-6	Propylene Glycol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	44.000000	Freshwater	Static
OPP	23950-58-5	Propyzamide	Crassostrea virginica	Eastern oyster	96 hr	EC50	3500.000000	Saltwater	Flow Through
CERC-GED	39429-71-5	Purifloc C-3	Ictalurus punctatus	Channel catfish	96 hr	LC50	680.000000	Freshwater	Static
CERC-GED	39429-71-5	Purifloc C-3	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1470.000000	Freshwater	Static
CERC-GED	39429-71-5	Purifloc C-3	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	446.000000	Freshwater	Static
CERC-GED	39429-71-5	Purifloc C-3	Pimephales promelas	Fathead minnow	96 hr	LC50	490.000000	Freshwater	Static
CERC-GED	66594-32-9	Pydraul 115E	Ictalurus punctatus	Channel catfish	96 hr	LC50	14000.000000	Freshwater	Static
CERC-GED	66594-32-9	Pydraul 115E	Ictalurus punctatus	Channel catfish	96 hr	LC50	22000.000000	Freshwater	Static
CERC-GED	66594-32-9	Pydraul 115E	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	10000.000000	Freshwater	Static
CERC-GED	66594-32-9	Pydraul 115E	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	45000.000000	Freshwater	Static
CERC-GED	66594-32-9	Pydraul 115E	Pimephales promelas	Fathead minnow	96 hr	LC50	46000.000000	Freshwater	Static
CERC-GED	66594-31-8	Pydraul 50E	Chironomus plumosus	Midge	48 hr	EC50	3500.000000	Freshwater	Static
CERC-GED	66594-31-8	Pydraul 50E	Daphnia magna	Water flea	48 hr	EC50	1600.000000	Freshwater	Static
CERC-GED	66594-31-8	Pydraul 50E	Gammaurus pseudolimnaeus	Scud	96 hr	LC50	3800.000000	Freshwater	Static
CERC-GED	66594-31-8	Pydraul 50E	Ictalurus punctatus	Channel catfish	96 hr	LC50	2700.000000	Freshwater	Static
CERC-GED	66594-31-8	Pydraul 50E	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2200.000000	Freshwater	Static
CERC-GED	66594-31-8	Pydraul 50E	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	100.000000	Freshwater	Static
CERC-GED	66594-31-8	Pydraul 50E	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	720.000000	Freshwater	Static
CERC-GED	66594-31-8	Pydraul 50E	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2000.000000	Freshwater	Static
CERC-GED	66594-31-8	Pydraul 50E	Pimephales promelas	Fathead minnow	96 hr	LC50	1300.000000	Freshwater	Static
CERC-GED	66594-31-8	Pydraul 50E	Pimephales promelas	Fathead minnow	96 hr	LC50	2000.000000	Freshwater	Static
OPP	123312-89-0	Pymetrozine	Americamysis bahia	Mysid	96 hr	LC50	66900.000000	Saltwater	Flow Through
OPP	123312-89-0	Pymetrozine	Crassostrea virginica	Eastern oyster	96 hr	EC50	3050.000000	Saltwater	Flow Through
OPP	123312-89-0	Pymetrozine	Daphnia magna	Water flea	48 hr	EC50	87000.000000	Freshwater	Flow Through
OPP	65264-33-1	Pyrazole	Daphnia magna	Water flea	48 hr	EC50	31700.000000	Freshwater	Static
OPP	65264-33-1	Pyrazole	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	123000.000000	Freshwater	Static
CERC-GED	8003-34-7	Pyrethrum (Pyrethrin)	Gammaurus fasciatus	Scud	96 hr	LC50	1,400000	Freshwater	Static
CERC-GED	8003-34-7	Pyrethrum (Pyrethrin)	Gammaurus fasciatus	Scud	96 hr	LC50	12.000000	Freshwater	Static
CERC-GED	8003-34-7	Pyrethrum (Pyrethrin)	Ictalurus punctatus	Channel catfish	96 hr	LC50	8.960000	Freshwater	Static
CERC-GED	8003-34-7	Pyrethrum (Pyrethrin)	Ictalurus punctatus	Channel catfish	96 hr	LC50	132.000000	Freshwater	Flow Through
CERC-GED	8003-34-7	Pyrethrum (Pyrethrin)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	53.000000	Freshwater	Static
CERC-GED	8003-34-7	Pyrethrum (Pyrethrin)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	58.000000	Freshwater	Static
CERC-GED	8003-34-7	Pyrethrum (Pyrethrin)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	59.000000	Freshwater	Static
CERC-GED	8003-34-7	Pyrethrum (Pyrethrin)	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	39.000000	Freshwater	Static
CERC-GED	8003-34-7	Pyrethrum (Pyrethrin)	Oncorhynchus tshawytscha	Chinook salmon	96 hr	LC50	44.500000	Freshwater	Static
CERC-GED	8003-34-7	Pyrethrum (Pyrethrin)	Salmo trutta	Brown trout	96 hr	LC50	50.000000	Freshwater	Static
CERC-GED	8003-34-7	Pyrethrum (Pyrethrin)	Salvelinus namaycush	Lake trout	96 hr	LC50	37.000000	Freshwater	Static
OPP	96489-71-3	Pyridaben	Americamysis bahia	Mysid	96 hr	LC50	0.670000	Saltwater	Flow Through

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OPP	96489-71-3	Pyridaben	<i>Crassostrea virginica</i>	Eastern oyster	96 hr	EC50	5.700000	Saltwater	Flow Through
OPP	96489-71-3	Pyridaben	<i>Daphnia magna</i>	Water flea	48 hr	EC50	0.530000	Freshwater	Static
OPP	96489-71-3	Pyridaben	<i>Daphnia magna</i>	Water flea	48 hr	EC50	1.020000	Freshwater	Flow Through
OPP	96489-71-3	Pyridaben	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	2.520000	Freshwater	Static Renewal
OPP	96489-71-3	Pyridaben	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	3.430000	Freshwater	Flow Through
OPP	96489-71-3	Pyridaben	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	0.720000	Freshwater	Flow Through
OPP	96489-71-3	Pyridaben	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	2.300000	Freshwater	Static Renewal
OPP	35512-33-5	Pyridate	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	4000.000000	Saltwater	Static
OPP	35512-33-5	Pyridate	<i>Daphnia magna</i>	Water flea	48 hr	EC50	1080.000000	Freshwater	Static
OPP	35512-33-5	Pyridate	<i>Mercenaria mercenaria</i>	Quahog clam	48 hr	EC50	145.000000	Saltwater	Static
OPP	95737-68-1	Pyriproxyfen	<i>Daphnia magna</i>	Water flea	48 hr	EC50	400.000000	Freshwater	Flow Through
OPP	84087-01-4	Quinclorac	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	69400.000000	Saltwater	Static
OPP	84087-01-4	Quinclorac	<i>Daphnia magna</i>	Water flea	48 hr	EC50	29800.000000	Freshwater	Static
OPP	84087-01-4	Quinclorac	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	31600.000000	Freshwater	Static
OPP	76578-14-8	Quizalofop, Ethyl	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	150.000000	Saltwater	Static
OPP	76578-14-8	Quizalofop, Ethyl	<i>Americamysis bahia</i>	Mysid	96 hr	LC50	250.000000	Saltwater	Static
OPP	76578-14-8	Quizalofop, Ethyl	<i>Crassostrea virginica</i>	Eastern oyster	96 hr	EC50	187.000000	Saltwater	Flow Through
OPP	76578-14-8	Quizalofop, Ethyl	<i>Cyprinodon variegatus</i>	Sheepshead minnow	96 hr	LC50	1400.000000	Saltwater	Static
OPP	76578-14-8	Quizalofop, Ethyl	<i>Daphnia magna</i>	Water flea	48 hr	EC50	3700.000000	Freshwater	Static
OPP	76578-14-8	Quizalofop, Ethyl	<i>Daphnia magna</i>	Water flea	48 hr	EC50	6400.000000	Freshwater	Static
OPP	76578-14-8	Quizalofop, Ethyl	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	460.000000	Freshwater	Static
OPP	76578-14-8	Quizalofop, Ethyl	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	870.000000	Freshwater	Static
OPP	10453-86-8	Resmethrin	<i>Daphnia magna</i>	Water flea	48 hr	EC50	3.100000	Freshwater	Static
CERC-GED	10453-86-8	Resmethrin	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	16.600000	Freshwater	Static
CERC-GED	10453-86-8	Resmethrin	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	27.000000	Freshwater	Static
CERC-GED	10453-86-8	Resmethrin	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	1.700000	Freshwater	Static
CERC-GED	10453-86-8	Resmethrin	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	2.620000	Freshwater	Static
OPP	10453-86-8	Resmethrin	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	0.820000	Freshwater	Flow Through
CERC-GED	10453-86-8	Resmethrin	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	2.960000	Freshwater	Static
CERC-GED	10453-86-8	Resmethrin	<i>Salvelinus namaycush</i>	Lake trout	96 hr	LC50	1.680000	Freshwater	Static
OPP	122931-48-0	Rimsulfuron	<i>Daphnia magna</i>	Water flea	48 hr	EC50	1000000.000000	Freshwater	Static
CERC-GED	299-84-3	Ronnel	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	1600.000000	Freshwater	Static
CERC-GED	299-84-3	Ronnel	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	1300.000000	Freshwater	Static
CERC-GED	299-84-3	Ronnel	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	1350.000000	Freshwater	Static
CERC-GED	299-84-3	Ronnel	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	550.000000	Freshwater	Static
CERC-GED	83-79-4	Rotenone	<i>Daphnia pulex</i>	Water flea	48 hr	EC50	100.000000	Freshwater	Static
CERC-GED	83-79-4	Rotenone	<i>Gammarus fasciatus</i>	Scud	96 hr	LC50	2600.000000	Freshwater	Static
CERC-GED	83-79-4	Rotenone	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	2.800000	Freshwater	Static
OPP	83-79-4	Rotenone	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	4.900000	Freshwater	Flow Through
OPP	83-79-4	Rotenone	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	5.500000	Freshwater	Flow Through
OPP	83-79-4	Rotenone	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	6.090000	Freshwater	Static
OPP	83-79-4	Rotenone	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1.900000	Freshwater	Flow Through
OPP	83-79-4	Rotenone	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	2.800000	Freshwater	Flow Through
OPP	83-79-4	Rotenone	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	2.820000	Freshwater	Static
CERC-GED	83-79-4	Rotenone	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	26.000000	Freshwater	Static
CERC-GED	83-79-4	Rotenone	<i>Simocephalus serrulatus</i>	Water flea	48 hr	EC50	310.000000	Freshwater	Static
CERC-GED	1966-58-1	Rowmate	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	4900.000000	Freshwater	Static
CERC-GED	22431-62-5	RU-11679	<i>Catostomus commersoni</i>	White sucker	96 hr	LC50	10.000000	Freshwater	Static
CERC-GED	22431-62-5	RU-11679	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	0.300000	Freshwater	Static
CERC-GED	22431-62-5	RU-11679	<i>Oncorhynchus kisutch</i>	Coho salmon	96 hr	LC50	0.630000	Freshwater	Static
CERC-GED	22431-62-5	RU-11679	<i>Salmo salar</i>	Atlantic salmon	96 hr	LC50	0.410000	Freshwater	Static
CERC-GED	22431-62-5	RU-11679	<i>Salvelinus namaycush</i>	Lake trout	96 hr	LC50	0.170000	Freshwater	Static
CERC-GED	96300-95-7	Santicizer 148	<i>Chironomus plumosus</i>	Midge	48 hr	EC50	1250.000000	Freshwater	Static
CERC-GED	96300-95-7	Santicizer 148	<i>Daphnia magna</i>	Water flea	48 hr	EC50	18000.000000	Freshwater	Static
CERC-GED	96300-95-7	Santicizer 148	<i>Gammaerus pseudolimnaeus</i>	Scud	96 hr	LC50	4400.000000	Freshwater	Static
CERC-GED	96300-95-7	Santicizer 148	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	72000.000000	Freshwater	Static
CERC-GED	96300-95-7	Santicizer 148	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	13000.000000	Freshwater	Static
CERC-GED	96300-95-7	Santicizer 148	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	26000.000000	Freshwater	Static
CERC-GED	96300-96-8	Santicizer 154	<i>Chironomus plumosus</i>	Midge	48 hr	EC50	2800.000000	Freshwater	Static
CERC-GED	96300-96-8	Santicizer 154	<i>Daphnia magna</i>	Water flea	48 hr	EC50	5000.000000	Freshwater	Static
CERC-GED	96300-96-8	Santicizer 154	<i>Gammaerus pseudolimnaeus</i>	Scud	96 hr	LC50	1900.000000	Freshwater	Static
CERC-GED	96300-96-8	Santicizer 154	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	960.000000	Freshwater	Static
CERC-GED	96300-96-8	Santicizer 154	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	1950.000000	Freshwater	Static

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CERC-GED	96300-96-8	Santicizer 154	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2300.000000	Freshwater	Static
CERC-GED	96300-96-8	Santicizer 154	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2400.000000	Freshwater	Static
CERC-GED	96300-96-8	Santicizer 154	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1100.000000	Freshwater	Static
CERC-GED	96300-96-8	Santicizer 154	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1200.000000	Freshwater	Static
CERC-GED	96300-96-8	Santicizer 154	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1300.000000	Freshwater	Static
CERC-GED	96300-96-8	Santicizer 154	Pimephales promelas	Fathead minnow	96 hr	LC50	1400.000000	Freshwater	Static
CERC-GED	28434-00-6	s-Bioallethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	27.600000	Freshwater	Static
CERC-GED	28434-00-6	s-Bioallethrin	Perca flavescens	Yellow perch	96 hr	LC50	7.800000	Freshwater	Static
CERC-GED	Unknown	SD 16898	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3900.000000	Freshwater	Static
CERC-GED	Unknown	SD 16898	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	380.000000	Freshwater	Static
CERC-GED	Unknown	SD 16898	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3400.000000	Freshwater	Static
CERC-GED	29118-87-4	SD 17250	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	5660.000000	Freshwater	Static
CERC-GED	29118-87-4	SD 17250	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	3100.000000	Freshwater	Static
CERC-GED	29118-87-4	SD 17250	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1500.000000	Freshwater	Static
CERC-GED	2782-70-9	SD 7438	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	34.000000	Freshwater	Static
CERC-GED	2312-73-4	SD 8339	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2400.000000	Freshwater	Static
ECOTOX	7446-08-4	Selenium dioxide	Tanytarsus dissimilis	Midge	48 hr	LC50	42500.000000	Freshwater	Static
OPP	74051-80-2	Sethoxydim	Daphnia magna	Water flea	48 hr	EC50	78100.000000	Freshwater	Static
OPP	74051-80-2	Sethoxydim	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	265000.000000	Freshwater	Static
OPP	74051-80-2	Sethoxydim	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	170000.000000	Freshwater	Static
OPP	1982-49-6	Siduron	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	15000.000000	Freshwater	Static
OPP	1982-49-6	Siduron	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	13000.000000	Freshwater	Static
ECOTOX	7761-88-8	Silver nitrate	Daphnia magna	Water flea	48 hr	LC50	0.390000	Freshwater	Static
ECOTOX	7761-88-8	Silver nitrate	Daphnia magna	Water flea	48 hr	LC50	0.660000	Freshwater	Static
ECOTOX	7761-88-8	Silver nitrate	Daphnia magna	Water flea	48 hr	LC50	0.900000	Freshwater	Static
ECOTOX	7761-88-8	Silver nitrate	Daphnia magna	Water flea	48 hr	LC50	1.030000	Freshwater	Static
ECOTOX	7761-88-8	Silver nitrate	Daphnia magna	Water flea	48 hr	LC50	2.200000	Freshwater	Static
ECOTOX	7761-88-8	Silver nitrate	Daphnia magna	Water flea	48 hr	LC50	2.900000	Freshwater	Static
ECOTOX	7761-88-8	Silver nitrate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6.900000	Freshwater	Flow Through
ECOTOX	7761-88-8	Silver nitrate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	8.400000	Freshwater	Flow Through
ECOTOX	7761-88-8	Silver nitrate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	16.380000	Freshwater	Flow Through
ECOTOX	7761-88-8	Silver nitrate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	17.870000	Freshwater	Flow Through
ECOTOX	7761-88-8	Silver nitrate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	19.920000	Freshwater	Static
ECOTOX	7761-88-8	Silver nitrate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	31.800000	Freshwater	Static
ECOTOX	7761-88-8	Silver nitrate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	108.900000	Freshwater	Static
ECOTOX	7761-88-8	Silver nitrate	Pimephales promelas	Fathead minnow	96 hr	LC50	3.900000	Freshwater	Flow Through
ECOTOX	7761-88-8	Silver nitrate	Pimephales promelas	Fathead minnow	96 hr	LC50	5.300000	Freshwater	Flow Through
ECOTOX	7761-88-8	Silver nitrate	Pimephales promelas	Fathead minnow	96 hr	LC50	6.700000	Freshwater	Static
ECOTOX	7761-88-8	Silver nitrate	Pimephales promelas	Fathead minnow	96 hr	LC50	10.980000	Freshwater	Flow Through
ECOTOX	7761-88-8	Silver nitrate	Pimephales promelas	Fathead minnow	96 hr	LC50	11.750000	Freshwater	Flow Through
ECOTOX	7761-88-8	Silver nitrate	Pimephales promelas	Fathead minnow	96 hr	LC50	12.300000	Freshwater	Static
ECOTOX	7761-88-8	Silver nitrate	Pimephales promelas	Fathead minnow	96 hr	LC50	22.660000	Freshwater	Static
ECOTOX	7761-88-8	Silver nitrate	Pimephales promelas	Fathead minnow	96 hr	LC50	30.430000	Freshwater	Static
ECOTOX	7761-88-8	Silver nitrate	Tanytarsus dissimilis	Midge	48 hr	EC50	316.000000	Freshwater	Static
OPP	130328-18-6	Silver-Zinc Zeolite	Daphnia magna	Water flea	48 hr	EC50	35.000000	Freshwater	Flow Through
CERC-GED	93-72-1	Silvex	Ictalurus punctatus	Channel catfish	96 hr	LC50	29400.000000	Freshwater	Static
CERC-GED	93-72-1	Silvex	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	10100.000000	Freshwater	Static
CERC-GED	93-72-1	Silvex	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	10400.000000	Freshwater	Static
CERC-GED	93-72-1	Silvex	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	600.000000	Freshwater	Static
CERC-GED	93-72-1	Silvex	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	17200.000000	Freshwater	Static
CERC-GED	93-72-1	Silvex	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	18500.000000	Freshwater	Static
CERC-GED	93-72-1	Silvex	Pimephales promelas	Fathead minnow	96 hr	LC50	15800.000000	Freshwater	Static
CERC-GED	93-72-1	Silvex	Pimephales promelas	Fathead minnow	96 hr	LC50	18500.000000	Freshwater	Static
CERC-GED	19398-13-1	Silvex Butoxyethanol Ester	Asellus brevicaudus	Aquatic sow bug	96 hr	LC50	88000.000000	Freshwater	Static
CERC-GED	19398-13-1	Silvex Butoxyethanol Ester	Carassius auratus	Goldfish	96 hr	LC50	61500.000000	Freshwater	Static
CERC-GED	19398-13-1	Silvex Butoxyethanol Ester	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	44500.000000	Freshwater	Static
CERC-GED	6047-17-2	Silvex Propylene Glycol Butyl Ether Ester	Cypridopsis vidua	Ostracod	48 hr	EC50	100.000000	Freshwater	Static
CERC-GED	6047-17-2	Silvex Propylene Glycol Butyl Ether Ester	Daphnia pulex	Water flea	48 hr	EC50	2000.000000	Freshwater	Static
CERC-GED	6047-17-2	Silvex Propylene Glycol Butyl Ether Ester	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	640.000000	Freshwater	Static
CERC-GED	6047-17-2	Silvex Propylene Glycol Butyl Ether Ester	Pimephales promelas	Fathead minnow	96 hr	LC50	3000.000000	Freshwater	Static
CERC-GED	6047-17-2	Silvex Propylene Glycol Butyl Ether Ester	Pteronarcys californica	Stonefly	96 hr	LC50	340.000000	Freshwater	Static
CERC-GED	6047-17-2	Silvex Propylene Glycol Butyl Ether Ester	Simocephalus serrulatus	Water flea	48 hr	EC50	2400.000000	Freshwater	Static
CERC-GED	122-34-9	Simazine	Gammarus fasciatus	Scud	96 hr	LC50	130000.000000	Freshwater	Static

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OPP	122-34-9	Simazine	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	16000.000000	Freshwater	Static
OPP	122-34-9	Simazine	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	70500.000000	Freshwater	Static
OPP	122-34-9	Simazine	Pimephales promelas	Fathead minnow	96 hr	LC50	6400.000000	Freshwater	Static
CERC-GED	122-34-9	Simazine	Pteronarcys californica	Stonefly	96 hr	LC50	1900.000000	Freshwater	Static
OPP	2492-26-4	Sodium 2-mercaptopbenzothiolate	Daphnia magna	Water flea	48 hr	EC50	2900.000000	Freshwater	Static
OPP	2492-26-4	Sodium 2-mercaptopbenzothiolate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	730.000000	Freshwater	Static
OPP	2492-26-4	Sodium 2-mercaptopbenzothiolate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	730.000000	Freshwater	Static
OPP	132-27-4	Sodium 2-phenylphenate	Daphnia magna	Water flea	48 hr	EC50	3800.000000	Freshwater	Static
OPP	132-27-4	Sodium 2-phenylphenate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6100.000000	Freshwater	Static
ECOTOX	7647-14-5	Sodium chloride	Anguilla rostrata	American eel	96 hr	LC50	17880000.000000	Freshwater	Static
ECOTOX	7647-14-5	Sodium chloride	Anguilla rostrata	American eel	96 hr	LC50	21450000.000000	Freshwater	Static
OPP	143-33-9	Sodium cyanide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	148.000000	Freshwater	Static
ECOTOX	143-33-9	Sodium cyanide	Tanytarsus dissimilis	Midge	48 hr	LC50	2490.000000	Freshwater	Static
OPP	51580-86-0	Sodium dichloroisocyanuratedihydrate	Daphnia magna	Water flea	48 hr	EC50	280.000000	Freshwater	Static
OPP	51580-86-0	Sodium dichloroisocyanuratedihydrate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	460.000000	Freshwater	Static
OPP	51580-86-0	Sodium dichloroisocyanuratedihydrate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	250.000000	Freshwater	Static
OPP	2893-78-9	Sodium dichloro-s-triazinetrione	Daphnia magna	Water flea	48 hr	EC50	110.000000	Freshwater	Static
OPP	2893-78-9	Sodium dichloro-s-triazinetrione	Daphnia magna	Water flea	48 hr	EC50	280.000000	Freshwater	Static
OPP	2893-78-9	Sodium dichloro-s-triazinetrione	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	460.000000	Freshwater	Static
OPP	2893-78-9	Sodium dichloro-s-triazinetrione	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	250.000000	Freshwater	Static
OPP	2893-78-9	Sodium dichloro-s-triazinetrione	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	358.000000	Freshwater	Static
OPP	7681-49-4	Sodium fluoride	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	830000.000000	Freshwater	Static Renewal
OPP	7681-49-4	Sodium fluoride	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	317000.000000	Freshwater	Static
OPP	62-74-8	Sodium furacetate	Daphnia magna	Water flea	48 hr	EC50	350000.000000	Freshwater	Static
OPP	62-74-8	Sodium furacetate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	54000.000000	Freshwater	Static
CERC-GED	151-21-3	Sodium lauryl sulfate	Americamysis bahia	Mysid	96 hr	LC50	4200.000000	Saltwater	Static
CERC-GED	151-21-3	Sodium lauryl sulfate	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	1700.000000	Saltwater	Static
CERC-GED	151-21-3	Sodium lauryl sulfate	Metamysidopsis swifti	Mysid	96 hr	LC50	3200.000000	Saltwater	Static
CERC-GED	10102-18-8	Sodium selenite	Chironomus plumosus	Midge	48 hr	EC50	36500.000000	Freshwater	Static
CERC-GED	10102-18-8	Sodium selenite	Daphnia magna	Water flea	48 hr	EC50	1000.000000	Freshwater	Static
CERC-GED	10102-18-8	Sodium selenite	Ictalurus punctatus	Channel catfish	96 hr	LC50	6100.000000	Freshwater	Static
CERC-GED	10102-18-8	Sodium selenite	Pimephales promelas	Fathead minnow	96 hr	LC50	10000.000000	Freshwater	Static
OPP	7345-69-9	Sodium tetra thiocarbamate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	21000.000000	Freshwater	Flow Through
CERC-GED	Unknown	SRClI Synfuel	Chironomus plumosus	Midge	48 hr	EC50	870.000000	Freshwater	Static
CERC-GED	Unknown	SRClI Synfuel	Daphnia magna	Water flea	48 hr	EC50	430.000000	Freshwater	Static
OPP	3810-74-0	Streptomycin	Daphnia magna	Water flea	48 hr	EC50	650000.000000	Freshwater	Static
OPP	57-24-9	Strychnine	Daphnia magna	Water flea	48 hr	EC50	10000.000000	Freshwater	Not Reported
OPP	57-24-9	Strychnine	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	760.000000	Freshwater	Not Reported
OPP	57-24-9	Strychnine	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2300.000000	Freshwater	Not Reported
OPP	122836-35-5	Sulfentrazone	Americamysis bahia	Mysid	96 hr	LC50	1000.000000	Saltwater	Flow Through
OPP	122836-35-5	Sulfentrazone	Daphnia magna	Water flea	48 hr	EC50	60400.000000	Freshwater	Flow Through
OPP	122836-35-5	Sulfentrazone	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	93800.000000	Freshwater	Flow Through
OPP	122836-35-5	Sulfentrazone	Menidia beryllina	Inland silverside	96 hr	LC50	114000.000000	Saltwater	Flow Through
OPP	4151-50-2	Sulfuramid	Daphnia magna	Water flea	48 hr	EC50	370.000000	Freshwater	Static
OPP	3689-24-5	Sulfotep	Daphnia magna	Water flea	48 hr	EC50	2.500000	Freshwater	Static
OPP	3689-24-5	Sulfotep	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	360.000000	Freshwater	Static
OPP	3689-24-5	Sulfotep	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1000.000000	Freshwater	Static
CERC-GED	7704-34-9	Sulfur	Americamysis bahia	Mysid	96 hr	LC50	730000.000000	Saltwater	Static
OPP	7704-34-9	Sulfur	Americamysis bahia	Mysid	96 hr	LC50	736000.000000	Saltwater	Static
ECOTOX	7758-98-7	Sulfuric acid, Copper(2+) salt(1:1)	Gambusia affinis	Mosquitofish	96 hr	LC50	200.000000	Freshwater	Static
OPP	35400-43-2	Sulprofos sulfoxide	Daphnia magna	Water flea	48 hr	EC50	5.100000	Freshwater	Static
OPP	26002-80-2	Sumithrin	Americamysis bahia	Mysid	96 hr	LC50	0.025000	Saltwater	Flow Through
OPP	26002-80-2	Sumithrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	15.800000	Freshwater	Flow Through
OPP	26002-80-2	Sumithrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	18.000000	Freshwater	Static
OPP	26002-80-2	Sumithrin	Menidia beryllina	Inland silverside	96 hr	LC50	94.200000	Saltwater	Flow Through
OPP	26002-80-2	Sumithrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1.400000	Freshwater	Flow Through
OPP	26002-80-2	Sumithrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	16.700000	Freshwater	Static
OPP	21564-17-0	TCMTB	Daphnia magna	Water flea	48 hr	EC50	23.000000	Freshwater	Static
OPP	21564-17-0	TCMTB	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	32.000000	Freshwater	Static
OPP	107534-96-3	Tebuconazole	Americamysis bahia	Mysid	96 hr	LC50	490.000000	Saltwater	Flow Through
OPP	107534-96-3	Tebuconazole	Crassostrea virginica	Eastern oyster	96 hr	EC50	2700.000000	Saltwater	Flow Through
OPP	107534-96-3	Tebuconazole	Daphnia magna	Water flea	48 hr	EC50	4000.000000	Freshwater	Flow Through
OPP	107534-96-3	Tebuconazole	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	5700.000000	Freshwater	Flow Through

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**Appendix 1**  
**Final Acute Toxicity Database**

OPP	107534-96-3	Tebuconazole	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4400.000000	Freshwater	Flow Through
OPP	112410-23-8	Tebufenozide	Americamysis bahia	Mysid	96 hr	LC50	1400.000000	Saltwater	Static
OPP	112410-23-8	Tebufenozide	Crassostrea virginica	Eastern oyster	96 hr	EC50	500.000000	Saltwater	Flow Through
OPP	112410-23-8	Tebufenozide	Daphnia magna	Water flea	48 hr	EC50	3800.000000	Freshwater	Static
OPP	112410-23-8	Tebufenozide	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3000.000000	Freshwater	Static
OPP	112410-23-8	Tebufenozide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	5380.000000	Freshwater	Static
OPP	34014-18-1	Tebuthiuron	Daphnia magna	Water flea	48 hr	EC50	297000.000000	Freshwater	Static
OPP	34014-18-1	Tebuthiuron	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	106000.000000	Freshwater	Static
OPP	34014-18-1	Tebuthiuron	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	143000.000000	Freshwater	Static
OPP	79538-32-2	Tefluthrin	Americamysis bahia	Mysid	96 hr	LC50	0.053000	Saltwater	Flow Through
OPP	79538-32-2	Tefluthrin	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	0.130000	Saltwater	Flow Through
OPP	79538-32-2	Tefluthrin	Daphnia magna	Water flea	48 hr	EC50	0.070000	Freshwater	Static
OPP	79538-32-2	Tefluthrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	0.130000	Freshwater	Flow Through
OPP	79538-32-2	Tefluthrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	0.060000	Freshwater	Flow Through
OPP	3383-96-8	Temephos	Daphnia magna	Water flea	48 hr	EC50	0.011000	Freshwater	Static
CERC-GED	3383-96-8	Temephos	Gammarus lacustris	Scud	96 hr	LC50	80.000000	Freshwater	Static
OPP	3383-96-8	Temephos	Gammarus lacustris	Scud	96 hr	LC50	640.000000	Freshwater	Static
CERC-GED	3383-96-8	Temephos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	21800.000000	Freshwater	Static
CERC-GED	3383-96-8	Temephos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3490.000000	Freshwater	Static
CERC-GED	3383-96-8	Temephos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6800.000000	Freshwater	Static
OPP	3383-96-8	Temephos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	9580.000000	Freshwater	Static
CERC-GED	3383-96-8	Temephos	Pimephales promelas	Fathead minnow	96 hr	LC50	34100.000000	Freshwater	Static
CERC-GED	3383-96-8	Temephos	Pteronarcys californica	Stonefly	96 hr	LC50	10.000000	Freshwater	Static
CERC-GED	3383-96-8	Temephos	Salmo salar	Atlantic salmon	96 hr	LC50	4000.000000	Freshwater	Static
CERC-GED	3383-96-8	Temephos	Salmo salar	Atlantic salmon	96 hr	LC50	20000.000000	Freshwater	Static
CERC-GED	3383-96-8	Temephos	Salmo salar	Atlantic salmon	96 hr	LC50	21000.000000	Freshwater	Static
CERC-GED	3383-96-8	Temephos	Salvelinus fontinalis	Brook trout	96 hr	LC50	10000.000000	Freshwater	Static
CERC-GED	3383-96-8	Temephos	Salvelinus fontinalis	Brook trout	96 hr	LC50	12800.000000	Freshwater	Static
CERC-GED	3383-96-8	Temephos	Salvelinus fontinalis	Brook trout	96 hr	LC50	17000.000000	Freshwater	Static
CERC-GED	3383-96-8	Temephos	Salvelinus fontinalis	Brook trout	96 hr	LC50	27000.000000	Freshwater	Static
CERC-GED	107-49-3	TEPP	Gammarus fasciatus	Scud	96 hr	LC50	39.000000	Freshwater	Static
CERC-GED	107-49-3	TEPP	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3000.000000	Freshwater	Static
CERC-GED	107-49-3	TEPP	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	700.000000	Freshwater	Static
CERC-GED	107-49-3	TEPP	Pimephales promelas	Fathead minnow	96 hr	LC50	240.000000	Freshwater	Static
OPP	5902-51-2	Terbacil	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	108000.000000	Saltwater	Static
OPP	5902-51-2	Terbacil	Daphnia magna	Water flea	48 hr	EC50	65000.000000	Freshwater	Static
OPP	5902-51-2	Terbacil	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	102900.000000	Freshwater	Static
OPP	5902-51-2	Terbacil	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	46200.000000	Freshwater	Static
OPP	13071-79-9	Terbufos	Americamysis bahia	Mysid	96 hr	LC50	0.220000	Saltwater	Static
OPP	13071-79-9	Terbufos	Americamysis bahia	Mysid	96 hr	LC50	0.400000	Saltwater	Flow Through
CERC-GED	13071-79-9	Terbufos	Chironomus plumosus	Midge	48 hr	EC50	1.400000	Freshwater	Static
OPP	13071-79-9	Terbufos	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	1.600000	Saltwater	Static
OPP	13071-79-9	Terbufos	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	3.200000	Saltwater	Static
CERC-GED	13071-79-9	Terbufos	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	4.500000	Saltwater	Static
CERC-GED	13071-79-9	Terbufos	Daphnia magna	Water flea	48 hr	EC50	0.400000	Freshwater	Static
CERC-GED	13071-79-9	Terbufos	Gammaurus pseudolimnaeus	Scud	96 hr	LC50	0.200000	Freshwater	Static
CERC-GED	13071-79-9	Terbufos	Gammaurus pseudolimnaeus	Scud	96 hr	LC50	0.280000	Freshwater	Static
CERC-GED	13071-79-9	Terbufos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1.500000	Freshwater	Static
CERC-GED	13071-79-9	Terbufos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1.600000	Freshwater	Static
CERC-GED	13071-79-9	Terbufos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1.700000	Freshwater	Static
CERC-GED	13071-79-9	Terbufos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1.800000	Freshwater	Static
CERC-GED	13071-79-9	Terbufos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2.000000	Freshwater	Static
CERC-GED	13071-79-9	Terbufos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	7.600000	Freshwater	Static
CERC-GED	13071-79-9	Terbufos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	10.000000	Freshwater	Static
CERC-GED	13071-79-9	Terbufos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	13.200000	Freshwater	Static
CERC-GED	13071-79-9	Terbufos	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	16.000000	Freshwater	Static
CERC-GED	13071-79-9	Terbufos	Palaemonetes pugio	Grass shrimp	96 hr	LC50	5.700000	Saltwater	Static
CERC-GED	13071-79-9	Terbufos	Pimephales promelas	Fathead minnow	96 hr	LC50	390.000000	Freshwater	Static
OPP	5915-41-3	Terbutylazine	Americamysis bahia	Mysid	96 hr	LC50	109.000000	Saltwater	Static
OPP	5915-41-3	Terbutylazine	Daphnia magna	Water flea	48 hr	EC50	21200.000000	Freshwater	Static
OPP	5915-41-3	Terbutylazine	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	7500.000000	Freshwater	Static
OPP	5915-41-3	Terbutylazine	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3400.000000	Freshwater	Static
CERC-GED	886-50-0	Terbutryn	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2720.000000	Freshwater	Static

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CERC-GED	886-50-0	Terbutryn	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	820.000000	Freshwater	Static
CERC-GED	8001-50-1	Terpene polychlorinate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	12.000000	Freshwater	Static
CERC-GED	8001-50-1	Terpene polychlorinate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	12.000000	Freshwater	Static
CERC-GED	8001-50-1	Terpene polychlorinate	Pteronarcys californica	Stonefly	96 hr	LC50	0.500000	Freshwater	Static
ECOTOX	127-18-4	Tetrachloroethene	Pimephales promelas	Fathead minnow	96 hr	LC50	13400.000000	Freshwater	Flow Through
ECOTOX	127-18-4	Tetrachloroethene	Tanytarsus dissimilis	Midge	48 hr	LC50	30800.000000	Freshwater	Static
ECOTOX	56-23-5	Tetrachloromethane	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	125000.000000	Freshwater	Static
ECOTOX	56-23-5	Tetrachloromethane	Menidia beryllina	Inland silverside	96 hr	LC50	150000.000000	Saltwater	Static
OPP	22248-79-9	Tetrachlorvinphos	Daphnia magna	Water flea	48 hr	EC50	1.900000	Freshwater	Static
CERC-GED	22248-79-9	Tetrachlorvinphos	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	529.000000	Freshwater	Static
OPP	22248-79-9	Tetrachlorvinphos	Penaeus duorarum	Pink shrimp	48 hr	LC50	280.000000	Saltwater	Flow Through
CERC-GED	116-29-0	Tetradifon	Gammarus fasciatus	Scud	96 hr	LC50	111.000000	Freshwater	Static
CERC-GED	116-29-0	Tetradifon	Ictalurus punctatus	Channel catfish	96 hr	LC50	2100.000000	Freshwater	Static
CERC-GED	116-29-0	Tetradifon	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1200.000000	Freshwater	Static
OPP	7696-12-0	Tetramethrin	Daphnia magna	Water flea	48 hr	EC50	45.000000	Freshwater	Flow Through
OPP	7696-12-0	Tetramethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	15.900000	Freshwater	Flow Through
OPP	7696-12-0	Tetramethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	19.000000	Freshwater	Static
OPP	7696-12-0	Tetramethrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3.700000	Freshwater	Flow Through
OPP	7696-12-0	Tetramethrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	21.000000	Freshwater	Static
CERC-GED	80-12-6	Tetramine	Gammarus fasciatus	Scud	96 hr	LC50	18.000000	Freshwater	Static
CERC-GED	80-12-6	Tetramine	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	89.000000	Freshwater	Static
CERC-GED	2227-13-6	Tetrasul	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	11000.000000	Freshwater	Static
CERC-GED	654-66-0	TFM	Orconectes nais	Crayfish	96 hr	LC50	17800.000000	Freshwater	Static
OPP	68-30-2	TFM/Bayer 73	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	7300.000000	Freshwater	Flow Through
OPP	68-30-2	TFM/Bayer 73	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1600.000000	Freshwater	Flow Through
CERC-GED	115-31-1	Thanite	Daphnia magna	Water flea	48 hr	EC50	115.000000	Freshwater	Static
CERC-GED	115-31-1	Thanite	Gammarus fasciatus	Scud	96 hr	LC50	740.000000	Freshwater	Static
OPP	148-79-8	Thiabendazole	Americanays bahia	Mysid	96 hr	LC50	340.000000	Saltwater	Flow Through
OPP	148-79-8	Thiabendazole	Daphnia magna	Water flea	48 hr	EC50	310.000000	Freshwater	Static
OPP	148-79-8	Thiabendazole	Daphnia magna	Water flea	48 hr	EC50	850.000000	Freshwater	Flow Through
OPP	148-79-8	Thiabendazole	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	14000.000000	Freshwater	Static
OPP	148-79-8	Thiabendazole	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	19000.000000	Freshwater	Static
OPP	148-79-8	Thiabendazole	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	22000.000000	Freshwater	Static
OPP	148-79-8	Thiabendazole	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	560.000000	Freshwater	Flow Through
OPP	148-79-8	Thiabendazole	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1800.000000	Freshwater	Static
OPP	148-79-8	Thiabendazole	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3500.000000	Freshwater	Static
OPP	117718-60-2	Thiazopyr	Americanays bahia	Mysid	96 hr	LC50	2000.000000	Saltwater	Flow Through
OPP	117718-60-2	Thiazopyr	Crassostrea virginica	Eastern oyster	96 hr	EC50	820.000000	Saltwater	Flow Through
OPP	117718-60-2	Thiazopyr	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	2900.000000	Saltwater	Flow Through
OPP	117718-60-2	Thiazopyr	Daphnia magna	Water flea	48 hr	EC50	6100.000000	Freshwater	Static
OPP	117718-60-2	Thiazopyr	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3500.000000	Freshwater	Static
OPP	117718-60-2	Thiazopyr	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3400.000000	Freshwater	Static
OPP	51707-55-2	Thidiazuron	Americanays bahia	Mysid	96 hr	LC50	3200.000000	Saltwater	Static
OPP	51707-55-2	Thidiazuron	Crassostrea virginica	Eastern oyster	96 hr	EC50	4300.000000	Saltwater	Flow Through
OPP	51707-55-2	Thidiazuron	Daphnia magna	Water flea	48 hr	EC50	10000.000000	Freshwater	Static
OPP	28249-77-6	Thiobencarb/Benthiocarb	Americanays bahia	Mysid	96 hr	LC50	150.000000	Saltwater	Static
OPP	28249-77-6	Thiobencarb/Benthiocarb	Americanays bahia	Mysid	96 hr	LC50	330.000000	Saltwater	Flow Through
CERC-GED	28249-77-6	Thiobencarb/Benthiocarb	Americanays bahia	Mysid	96 hr	LC50	370.000000	Saltwater	Static
OPP	28249-77-6	Thiobencarb/Benthiocarb	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	658.000000	Saltwater	Flow Through
OPP	28249-77-6	Thiobencarb/Benthiocarb	Daphnia magna	Water flea	48 hr	EC50	101.000000	Freshwater	Static
OPP	28249-77-6	Thiobencarb/Benthiocarb	Gammarus pseudolimnaeus	Scud	96 hr	LC50	720.000000	Freshwater	Static
CERC-GED	28249-77-6	Thiobencarb/Benthiocarb	Ictalurus punctatus	Channel catfish	96 hr	LC50	2280.000000	Freshwater	Static
CERC-GED	28249-77-6	Thiobencarb/Benthiocarb	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2480.000000	Freshwater	Static
OPP	28249-77-6	Thiobencarb/Benthiocarb	Leuresthes tenuis	California grunion	96 hr	LC50	330.000000	Saltwater	Flow Through
CERC-GED	28249-77-6	Thiobencarb/Benthiocarb	Leuresthes tenuis	California grunion	96 hr	LC50	500.000000	Saltwater	Static
OPP	28249-77-6	Thiobencarb/Benthiocarb	Menidia menidia	Atlantic silverside	96 hr	LC50	680.000000	Saltwater	Flow Through
CERC-GED	28249-77-6	Thiobencarb/Benthiocarb	Menidia menidia	Atlantic silverside	96 hr	LC50	748.000000	Saltwater	Static
OPP	28249-77-6	Thiobencarb/Benthiocarb	Menidia peninsulae	Tidewater silverside	96 hr	LC50	820.000000	Saltwater	Flow Through
CERC-GED	28249-77-6	Thiobencarb/Benthiocarb	Menidia peninsulae	Tidewater silverside	96 hr	LC50	1200.000000	Saltwater	Static
CERC-GED	28249-77-6	Thiobencarb/Benthiocarb	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1150.000000	Freshwater	Static
OPP	6317-18-6	Thiocyanate - Methylenebis	Americanays bahia	Mysid	96 hr	LC50	36.000000	Saltwater	Flow Through
OPP	6317-18-6	Thiocyanate - Methylenebis	Crassostrea virginica	Eastern oyster	96 hr	EC50	3.400000	Saltwater	Flow Through
OPP	6317-18-6	Thiocyanate - Methylenebis	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	606.000000	Saltwater	Flow Through

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OPP	6317-18-6	Thiocyanate - Methylenebis	Daphnia magna	Water flea	48 hr	EC50	39.000000	Freshwater	Static
OPP	6317-18-6	Thiocyanate - Methylenebis	Daphnia magna	Water flea	48 hr	EC50	60.000000	Freshwater	Static
OPP	6317-18-6	Thiocyanate - Methylenebis	Daphnia magna	Water flea	48 hr	EC50	70.000000	Freshwater	Static
OPP	6317-18-6	Thiocyanate - Methylenebis	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	210.000000	Freshwater	Static
OPP	6317-18-6	Thiocyanate - Methylenebis	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	250.000000	Freshwater	Static
OPP	6317-18-6	Thiocyanate - Methylenebis	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	240.000000	Freshwater	Static
OPP	59669-26-0	Thiodicarb	Americanysis bahia	Mysid	96 hr	LC50	29.300000	Saltwater	Static Renewal
CERC-GED	59669-26-0	Thiodicarb	Americanysis bahia	Mysid	96 hr	LC50	260.000000	Saltwater	Static
OPP	59669-26-0	Thiodicarb	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	530.000000	Saltwater	Static
OPP	59669-26-0	Thiodicarb	Daphnia magna	Water flea	48 hr	EC50	27.000000	Freshwater	Flow Through
OPP	59669-26-0	Thiodicarb	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1470.000000	Freshwater	Flow Through
OPP	59669-26-0	Thiodicarb	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	3300.000000	Freshwater	Static
OPP	59669-26-0	Thiodicarb	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2650.000000	Freshwater	Flow Through
OPP	59669-26-0	Thiodicarb	Palaemonetes sp.	Grass shrimp	96 hr	LC50	59.600000	Saltwater	Static
OPP	59669-26-0	Thiodicarb	Salvelinus fontinalis	Brook trout	96 hr	LC50	4450.000000	Freshwater	Static
OPP	59669-26-0	Thiodicarb	Uca pugilator	Fiddler crab	96 hr	LC50	2.500000	Saltwater	Static
OPP	23564-05-8	Thiophanate-methyl	Americanysis bahia	Mysid	96 hr	LC50	1100.000000	Saltwater	Flow Through
OPP	23564-05-8	Thiophanate-methyl	Crassostrea virginica	Eastern oyster	96 hr	EC50	2200.000000	Saltwater	Flow Through
OPP	23564-05-8	Thiophanate-methyl	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	17000.000000	Saltwater	Flow Through
OPP	23564-05-8	Thiophanate-methyl	Daphnia carinata	Water flea	48 hr	EC50	20300.000000	Freshwater	Static
OPP	23564-05-8	Thiophanate-methyl	Daphnia magna	Water flea	48 hr	EC50	5400.000000	Freshwater	Flow Through
OPP	23564-05-8	Thiophanate-methyl	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	58000.000000	Freshwater	Static
OPP	23564-05-8	Thiophanate-methyl	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	83000.000000	Freshwater	Static
OPP	137-26-8	Thiram	Americanysis bahia	Mysid	96 hr	LC50	3.360000	Saltwater	Flow Through
OPP	137-26-8	Thiram	Crassostrea gigas	Pacific oyster	48 hr	EC50	4.700000	Saltwater	Flow Through
OPP	137-26-8	Thiram	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	540.000000	Saltwater	Flow Through
OPP	137-26-8	Thiram	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	42.000000	Freshwater	Static
OPP	137-26-8	Thiram	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	130.000000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Ameiurus melas	Black bullhead	96 hr	LC50	5.000000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Atherix variegata	Snipe fly	96 hr	LC50	40.000000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Bufo woodhousei fowleri	Fowlers toad	96 hr	LC50	150.000000	Freshwater	Static
OPP	8001-35-2	Toxaphene	Callinectes sapidus	Blue crab	48 hr	LC50	180.000000	Saltwater	Flow Through
CERC-GED	8001-35-2	Toxaphene	Carassius auratus	Goldfish	96 hr	LC50	14.000000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Claassenia sabulosa	Stonefly	96 hr	LC50	1.300000	Freshwater	Static
OPP	8001-35-2	Toxaphene	Crassostrea virginica	Eastern oyster	96 hr	EC50	34.000000	Saltwater	Flow Through
CERC-GED	8001-35-2	Toxaphene	Cyprinus carpio	Common carp	96 hr	LC50	3.700000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Daphnia magna	Water flea	48 hr	EC50	10.000000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Daphnia pulex	Water flea	48 hr	EC50	14.200000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Gammarus fasciatus	Scud	96 hr	LC50	26.000000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Ictalurus punctatus	Channel catfish	96 hr	LC50	2.800000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Ictalurus punctatus	Channel catfish	96 hr	LC50	3.200000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Ictalurus punctatus	Channel catfish	96 hr	LC50	3.400000	Freshwater	Static
OPP	8001-35-2	Toxaphene	Ictalurus punctatus	Channel catfish	96 hr	LC50	4.750000	Freshwater	Flow Through
OPP	8001-35-2	Toxaphene	Ictalurus punctatus	Channel catfish	96 hr	LC50	5.500000	Freshwater	Flow Through
CERC-GED	8001-35-2	Toxaphene	Ictalurus punctatus	Channel catfish	96 hr	LC50	13.100000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Lepomis cyanellus	Green sunfish	96 hr	LC50	13.000000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2.600000	Freshwater	Static
OPP	8001-35-2	Toxaphene	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3.370000	Freshwater	Flow Through
CERC-GED	8001-35-2	Toxaphene	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	7.300000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	18.000000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Micropterus salmoides	Largemouth bass	96 hr	LC50	2.000000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	8.000000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2.700000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	6.700000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	9.000000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	10.600000	Freshwater	Static
OPP	8001-35-2	Toxaphene	Palaemonetes pugio	Grass shrimp	96 hr	LC50	4.400000	Saltwater	Flow Through
OPP	8001-35-2	Toxaphene	Penaeus aztecus	Brown shrimp	48 hr	LC50	2.700000	Saltwater	Flow Through
OPP	8001-35-2	Toxaphene	Penaeus duorarum	Pink shrimp	48 hr	LC50	4.200000	Saltwater	Flow Through
CERC-GED	8001-35-2	Toxaphene	Pimephales promelas	Fathead minnow	96 hr	LC50	14.000000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Pimephales promelas	Fathead minnow	96 hr	LC50	18.000000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Pimephales promelas	Fathead minnow	96 hr	LC50	20.000000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Pseudacris triseriata	Western chorus frog	96 hr	LC50	390.000000	Freshwater	Static

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**Final Acute Toxicity Database**

CERC-GED	8001-35-2	Toxaphene	Pteronarcella badia	Stonefly	96 hr	LC50	1.800000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Pteronarcys californica	Stonefly	96 hr	LC50	2.300000	Freshwater	Static
OPP	8001-35-2	Toxaphene	Salmo trutta	Brown trout	96 hr	LC50	3.100000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Simocephalus serrulatus	Water flea	48 hr	EC50	10.000000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Simocephalus serrulatus	Water flea	48 hr	EC50	19.000000	Freshwater	Static
CERC-GED	8001-35-2	Toxaphene	Tipula sp.	True crane fly	96 hr	LC50	18.000000	Freshwater	Static
OPP	66841-25-6	Tralomethrin	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	2.480000	Saltwater	Static
OPP	66841-25-6	Tralomethrin	Daphnia magna	Water flea	48 hr	EC50	0.039000	Freshwater	Static
OPP	66841-25-6	Tralomethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	2.800000	Freshwater	Static
OPP	66841-25-6	Tralomethrin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4.300000	Freshwater	Static
OPP	66841-25-6	Tralomethrin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1.600000	Freshwater	Static
CERC-GED	15271-41-7	Ttranid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	13000.000000	Freshwater	Static
CERC-GED	Unknown	Tretolite J-146	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	14000.000000	Freshwater	Static
CERC-GED	Unknown	Tretolite J-146	Pteronarcella badia	Stonefly	96 hr	LC50	61000.000000	Freshwater	Static
CERC-GED	Unknown	Tretolite JN-9045	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	357.000000	Freshwater	Static
CERC-GED	Unknown	Tretolite JW-8226	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	358.000000	Freshwater	Static
OPP	43121-43-3	Triadimefon	Daphnia magna	Water flea	48 hr	EC50	1600.000000	Freshwater	Static
OPP	43121-43-3	Triadimefon	Daphnia magna	Water flea	48 hr	EC50	7160.000000	Freshwater	Static
OPP	43121-43-3	Triadimefon	Ictalurus punctatus	Channel catfish	96 hr	LC50	15000.000000	Freshwater	Static
OPP	43121-43-3	Triadimefon	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	10000.000000	Freshwater	Static Renewal
OPP	43121-43-3	Triadimefon	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	11000.000000	Freshwater	Static
OPP	43121-43-3	Triadimefon	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4100.000000	Freshwater	Static Renewal
OPP	43121-43-3	Triadimefon	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	14000.000000	Freshwater	Static
OPP	55219-65-3	Triadimenol	Carassius auratus	Goldfish	96 hr	LC50	5000.000000	Freshwater	Static
OPP	55219-65-3	Triadimenol	Daphnia magna	Water flea	48 hr	EC50	2500.000000	Freshwater	Static
OPP	55219-65-3	Triadimenol	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	15000.000000	Freshwater	Static
OPP	55219-65-3	Triadimenol	Leuciscus idus melanotus	Golden orfe	96 hr	LC50	17400.000000	Not Reported	Static
OPP	55219-65-3	Triadimenol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	14000.000000	Freshwater	Static
OPP	55219-65-3	Triadimenol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	23500.000000	Freshwater	Static
CERC-GED	2303-17-5	Triallate	Daphnia magna	Water flea	48 hr	EC50	80.000000	Freshwater	Static
OPP	2303-17-5	Triallate	Daphnia magna	Water flea	48 hr	EC50	91.000000	Freshwater	Static
OPP	2303-17-5	Triallate	Daphnia magna	Water flea	48 hr	EC50	430.000000	Freshwater	Static
CERC-GED	2303-17-5	Triallate	Ictalurus punctatus	Channel catfish	96 hr	LC50	1700.000000	Freshwater	Static
OPP	2303-17-5	Triallate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1300.000000	Freshwater	Static
OPP	2303-17-5	Triallate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1330.000000	Freshwater	Flow Through
CERC-GED	2303-17-5	Triallate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	620.000000	Freshwater	Static
OPP	2303-17-5	Triallate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1200.000000	Freshwater	Static
OPP	82097-50-5	Triasulfuron	Americamysis bahia	Mysid	96 hr	LC50	21500.000000	Saltwater	Static
OPP	1983-10-4	Tributyltin fluoride(TBTF)	Daphnia magna	Water flea	48 hr	EC50	0.250000	Saltwater	Static
OPP	1983-10-4	Tributyltin fluoride(TBTF)	Fundulus heteroclitus	Mummichog	96 hr	LC50	7.600000	Saltwater	Static
OPP	1983-10-4	Tributyltin fluoride(TBTF)	Ictalurus punctatus	Channel catfish	96 hr	LC50	4.300000	Freshwater	Static
OPP	1983-10-4	Tributyltin fluoride(TBTF)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3.700000	Freshwater	Static
OPP	1983-10-4	Tributyltin fluoride(TBTF)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3.400000	Freshwater	Static
OPP	28801-69-6	Tributyltin neodecaroate	Daphnia magna	Water flea	48 hr	EC50	5.500000	Freshwater	Static
OPP	28801-69-6	Tributyltin neodecaroate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	21.000000	Freshwater	Static
OPP	28801-69-6	Tributyltin neodecaroate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	10.500000	Freshwater	Static
OPP	56-35-9	Tributyltin oxide	Armandia agilis	Polychaete	96 hr	LC50	1.300000	Saltwater	Flow Through
OPP	56-35-9	Tributyltin oxide	Crassostrea gigas	Pacific oyster	48 hr	EC50	0.280000	Saltwater	Static
OPP	56-35-9	Tributyltin oxide	Crassostrea virginica	Eastern oyster	96 hr	EC50	0.126000	Saltwater	Flow Through
OPP	56-35-9	Tributyltin oxide	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	16.000000	Saltwater	Static
OPP	56-35-9	Tributyltin oxide	Daphnia magna	Water flea	48 hr	EC50	11.500000	Freshwater	Static
OPP	56-35-9	Tributyltin oxide	Fundulus heteroclitus	Mummichog	96 hr	LC50	24.000000	Saltwater	Static
OPP	56-35-9	Tributyltin oxide	Ictalurus punctatus	Channel catfish	96 hr	LC50	12.000000	Freshwater	Static
OPP	56-35-9	Tributyltin oxide	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	8.700000	Freshwater	Flow Through
OPP	56-35-9	Tributyltin oxide	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	13.200000	Freshwater	Static
OPP	56-35-9	Tributyltin oxide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	5.600000	Freshwater	Static
OPP	56-35-9	Tributyltin oxide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	7.400000	Freshwater	Flow Through
OPP	56-35-9	Tributyltin oxide	Palaeomonetes pugio	Grass shrimp	96 hr	LC50	19.000000	Saltwater	Flow Through
OPP	52-68-6	Trichlorfon	Acroneuria pacifica	Stonefly	96 hr	LC50	16.500000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	Claassenia sabulosa	Stonefly	96 hr	LC50	22.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	14300.000000	Saltwater	Static
CERC-GED	52-68-6	Trichlorfon	Daphnia pulex	Water flea	48 hr	EC50	0.180000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	Gammarus lacustris	Scud	96 hr	LC50	40.000000	Freshwater	Static

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CERC-GED	52-68-6	Trichlorfon	<i>Gammarus pseudolimnaeus</i>	Scud	96 hr	LC50	43.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Gammarus pseudolimnaeus</i>	Scud	96 hr	LC50	350.000000	Freshwater	Static
OPP	52-68-6	Trichlorfon	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	880.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Ictalurus punctatus</i>	Channel catfish	96 hr	LC50	7600.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Isogenus sp.</i>	Stonefly	96 hr	LC50	24.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	600.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	1050.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	1300.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	1880.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	2200.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	2350.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	2820.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	3170.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	3300.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	3360.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	3500.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	4500.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	7200.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	570.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	1080.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	1680.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	1730.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	2700.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	4400.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	5220.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Oncorhynchus clarki</i>	Cutthroat trout	96 hr	LC50	6170.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	780.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	820.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	860.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1020.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1120.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1750.000000	Freshwater	Static
OPP	52-68-6	Trichlorfon	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1800.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	1900.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	2460.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	2500.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Palaemonetes pugio</i>	Grass shrimp	96 hr	LC50	7.000000	Saltwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Pimephales promelas</i>	Fathead minnow	96 hr	LC50	7900.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Procambarus sp.</i>	Crayfish	96 hr	LC50	7800.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Procambarus sp.</i>	Crayfish	96 hr	LC50	13300.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Pteronarcella badia</i>	Stonefly	96 hr	LC50	9.800000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Pteronarcella badia</i>	Stonefly	96 hr	LC50	11.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Pteronarcys californica</i>	Stonefly	96 hr	LC50	35.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Salmo salar</i>	Atlantic salmon	96 hr	LC50	1400.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Salmo salar</i>	Atlantic salmon	96 hr	LC50	2000.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Salmo salar</i>	Atlantic salmon	96 hr	LC50	2970.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Salvelinus fontinalis</i>	Brook trout	96 hr	LC50	650.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Salvelinus fontinalis</i>	Brook trout	96 hr	LC50	2500.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Salvelinus fontinalis</i>	Brook trout	96 hr	LC50	3400.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Salvelinus fontinalis</i>	Brook trout	96 hr	LC50	6000.000000	Freshwater	Static
OPP	52-68-6	Trichlorfon	<i>Salvelinus namaycush</i>	Lake trout	96 hr	LC50	550.000000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Simocephalus serrulatus</i>	Water flea	48 hr	EC50	0.320000	Freshwater	Static
CERC-GED	52-68-6	Trichlorfon	<i>Simocephalus serrulatus</i>	Water flea	48 hr	EC50	0.700000	Freshwater	Static
OPP	7673-09-8	Trichloromelamine	<i>Daphnia magna</i>	Water flea	48 hr	EC50	1200.000000	Freshwater	Static
OPP	7673-09-8	Trichloromelamine	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	4500.000000	Freshwater	Static
OPP	7673-09-8	Trichloromelamine	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	5200.000000	Freshwater	Static
OPP	7673-09-8	Trichloromelamine	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	2000.000000	Freshwater	Static
OPP	7673-09-8	Trichloromelamine	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	4000.000000	Freshwater	Static
ECOTOX	67-66-3	Trichloromethane	<i>Lepomis macrochirus</i>	Bluegill sunfish	96 hr	LC50	115000.000000	Freshwater	Static
ECOTOX	67-66-3	Trichloromethane	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	66800.000000	Freshwater	Static
CERC-GED	327-98-0	Trichloronate	<i>Oncorhynchus mykiss</i>	Rainbow trout	96 hr	LC50	140.000000	Freshwater	Static
CERC-GED	327-98-0	Trichloronate	<i>Pteronarcys californica</i>	Stonefly	96 hr	LC50	0.100000	Freshwater	Static

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OPP	87-90-1	Trichloro-s-triazinetrione	Daphnia magna	Water flea	48 hr	EC50	170.000000	Freshwater	Static
OPP	87-90-1	Trichloro-s-triazinetrione	Daphnia magna	Water flea	48 hr	EC50	640.000000	Freshwater	Static
OPP	87-90-1	Trichloro-s-triazinetrione	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	200.000000	Freshwater	Static
OPP	87-90-1	Trichloro-s-triazinetrione	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	230.000000	Freshwater	Static
OPP	87-90-1	Trichloro-s-triazinetrione	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	80.000000	Freshwater	Static
OPP	87-90-1	Trichloro-s-triazinetrione	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	330.000000	Freshwater	Static
OPP	87-90-1	Trichloro-s-triazinetrione	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	370.000000	Freshwater	Static
OPP	64700-56-7	Triclopyr BEE	Crassostrea virginica	Eastern oyster	96 hr	EC50	460.000000	Saltwater	Flow Through
OPP	64700-56-7	Triclopyr BEE	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	360.000000	Freshwater	Flow Through
OPP	64700-56-7	Triclopyr BEE	Menidia beryllina	Inland silverside	96 hr	LC50	450.000000	Saltwater	Flow Through
OPP	64700-56-7	Triclopyr BEE	Oncorhynchus kisutch	Coho salmon	96 hr	LC50	1400.000000	Freshwater	Static
OPP	64700-56-7	Triclopyr BEE	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	650.000000	Freshwater	Flow Through
OPP	64700-56-7	Triclopyr BEE	Palaemonetes pugio	Grass shrimp	96 hr	LC50	2480.000000	Saltwater	Flow Through
OPP	55335-06-3	Triclopyr, acid	Daphnia magna	Water flea	48 hr	EC50	132900.000000	Freshwater	Static
OPP	55335-06-3	Triclopyr, acid	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	148000.000000	Freshwater	Static
OPP	55335-06-3	Triclopyr, acid	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	117000.000000	Freshwater	Static
OPP	57213-69-1	Triclopyr, triethylamine salt	Daphnia magna	Water flea	48 hr	EC50	132900.000000	Freshwater	Static
OPP	3380-34-5	Tricosan	Daphnia magna	Water flea	48 hr	EC50	390.000000	Freshwater	Static
OPP	3380-34-5	Tricosan	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	288.000000	Freshwater	Static
OPP	27519-02-4	Tricosene	Daphnia magna	Water flea	48 hr	EC50	1080.000000	Freshwater	Static
OPP	65954-19-0	Tridecen-1-yl acetate	Daphnia magna	Water flea	48 hr	EC50	540.000000	Freshwater	Static
OPP	65954-19-0	Tridecen-1-yl acetate	Daphnia magna	Water flea	48 hr	EC50	1600.000000	Freshwater	Static
OPP	65954-19-0	Tridecen-1-yl acetate	Daphnia magna	Water flea	48 hr	EC50	4800.000000	Freshwater	Static
CERC-GED	112-27-6	Triethylene Glycol	Americamysis bahia	Mysid	96 hr	LC50	1100000.000000	Saltwater	Static
OPP	7779-27-3	Triethylhexahydro-s-triazine (Vancide TH)	Daphnia magna	Water flea	48 hr	EC50	15300.000000	Freshwater	Static
OPP	7779-27-3	Triethylhexahydro-s-triazine (Vancide TH)	Daphnia magna	Water flea	48 hr	EC50	26000.000000	Freshwater	Flow Through
OPP	7779-27-3	Triethylhexahydro-s-triazine (Vancide TH)	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	30800.000000	Freshwater	Static
OPP	7779-27-3	Triethylhexahydro-s-triazine (Vancide TH)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	23300.000000	Freshwater	Static
OPP	7779-27-3	Triethylhexahydro-s-triazine (Vancide TH)	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	35000.000000	Freshwater	Flow Through
OPP	141517-21-7	Trifloxystrobin	Americamysis bahia	Mysid	96 hr	EC50	8.620000	Saltwater	Flow Through
OPP	141517-21-7	Trifloxystrobin	Crassostrea virginica	Eastern oyster	96 hr	EC50	29.290000	Saltwater	Flow Through
OPP	141517-21-7	Trifloxystrobin	Daphnia magna	Water flea	48 hr	EC50	25.300000	Freshwater	Flow Through
OPP	141517-21-7	Trifloxystrobin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	54.000000	Freshwater	Flow Through
OPP	141517-21-7	Trifloxystrobin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	14.000000	Freshwater	Flow Through
OPP	68694-11-1	Triflumizole	Cyprinus carpio	Common carp	96 hr	LC50	900.000000	Freshwater	Static
OPP	68694-11-1	Triflumizole	Daphnia carinata	Water flea	48 hr	EC50	1400.000000	Freshwater	Static
OPP	68694-11-1	Triflumizole	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1200.000000	Freshwater	Static
OPP	68694-11-1	Triflumizole	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	580.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Bufo woodhousei fowleri	Fowlers toad	96 hr	LC50	110.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Bufo woodhousei fowleri	Fowlers toad	96 hr	LC50	115.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	160.000000	Saltwater	Static
CERC-GED	1582-09-8	Trifluralin	Daphnia pulex	Water flea	48 hr	EC50	625.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Gammarus fasciatus	Scud	96 hr	LC50	2200.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Ictalurus punctatus	Channel catfish	96 hr	LC50	2200.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	58.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	60.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	135.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	140.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	190.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	240.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	260.000000	Freshwater	Static
OPP	1582-09-8	Trifluralin	Mytilus edulis	Mussel	48 hr	EC50	96.000000	Saltwater	Static
CERC-GED	1582-09-8	Trifluralin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	41.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	42.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	60.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	86.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	92.000000	Freshwater	Static
OPP	1582-09-8	Trifluralin	Palaemonetes pugio	Grass shrimp	96 hr	LC50	638.500000	Saltwater	Flow Through
CERC-GED	1582-09-8	Trifluralin	Pimephales promelas	Fathead minnow	96 hr	LC50	105.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Pimephales promelas	Fathead minnow	96 hr	LC50	124.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Pimephales promelas	Fathead minnow	96 hr	LC50	160.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Pteronarcys californica	Stonefly	96 hr	LC50	2800.000000	Freshwater	Static
CERC-GED	1582-09-8	Trifluralin	Simocephalus serrulatus	Water flea	48 hr	EC50	900.000000	Freshwater	Static

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**Appendix 1**  
**Final Acute Toxicity Database**

CERC-GED	Unknown	Trifluralin II	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	870.000000	Saltwater	Static
CERC-GED	Unknown	Trifluralin III	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	990.000000	Saltwater	Static
CERC-GED	Unknown	Trifluralin IV	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	8300.000000	Saltwater	Static
OPP	2686-99-9	Trimethacarb	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	3000.000000	Freshwater	Static
OPP	2686-99-9	Trimethacarb	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4700.000000	Freshwater	Static
CERC-GED	115-86-6	Triphenyl phosphate	Penaeus aztecus	Brown shrimp	48 hr	LC50	4.200000	Saltwater	Flow Through
CERC-GED	115-86-6	Triphenyl phosphate	Ictalurus punctatus	Channel catfish	96 hr	LC50	420.000000	Freshwater	Static
CERC-GED	115-86-6	Triphenyl phosphate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	370.000000	Freshwater	Static
CERC-GED	115-86-6	Triphenyl phosphate	Pimephales promelas	Fathead minnow	96 hr	LC50	1000.000000	Freshwater	Static
OPP	76-87-9	Triphenyltin hydroxide	Americamysis bahia	Mysid	96 hr	LC50	3.700000	Saltwater	Static
OPP	76-87-9	Triphenyltin hydroxide	Americamysis bahia	Mysid	96 hr	LC50	4.300000	Saltwater	Flow Through
CERC-GED	76-87-9	Triphenyltin hydroxide	Carassius auratus	Goldfish	96 hr	LC50	62.000000	Freshwater	Static
OPP	76-87-9	Triphenyltin hydroxide	Crassostrea virginica	Eastern oyster	96 hr	EC50	0.320000	Saltwater	Flow Through
OPP	76-87-9	Triphenyltin hydroxide	Crassostrea virginica	Eastern oyster	96 hr	EC50	0.360000	Saltwater	Flow Through
OPP	76-87-9	Triphenyltin hydroxide	Crassostrea virginica	Eastern oyster	96 hr	EC50	0.570000	Saltwater	Flow Through
OPP	76-87-9	Triphenyltin hydroxide	Crassostrea virginica	Eastern oyster	96 hr	EC50	1.500000	Saltwater	Flow Through
OPP	76-87-9	Triphenyltin hydroxide	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	25.500000	Saltwater	Flow Through
OPP	76-87-9	Triphenyltin hydroxide	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	34.000000	Saltwater	Static
OPP	76-87-9	Triphenyltin hydroxide	Daphnia magna	Water flea	48 hr	EC50	10.000000	Freshwater	Static
OPP	76-87-9	Triphenyltin hydroxide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	22.000000	Freshwater	Static
OPP	76-87-9	Triphenyltin hydroxide	Penaeus duorarum	Pink shrimp	48 hr	LC50	64.000000	Saltwater	Flow Through
CERC-GED	76-87-9	Triphenyltin hydroxide	Pimephales promelas	Fathead minnow	96 hr	LC50	20.000000	Freshwater	Static
OPP	126-11-4	Tris(hydroxymethyl)nitromethane	Crassostrea virginica	Eastern oyster	96 hr	EC50	22800.000000	Saltwater	Flow Through
OPP	126-11-4	Tris(hydroxymethyl)nitromethane	Daphnia magna	Water flea	48 hr	EC50	80000.000000	Freshwater	Static
OPP	126-11-4	Tris(hydroxymethyl)nitromethane	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	410000.000000	Freshwater	Static
OPP	126-11-4	Tris(hydroxymethyl)nitromethane	Pimephales promelas	Fathead minnow	96 hr	LC50	280000.000000	Freshwater	Static
CERC-GED	64-00-6	UC 10854	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	140.000000	Freshwater	Static
OPP	83657-17-4	Uniconazole	Cyprinus carpio	Common carp	96 hr	LC50	7500.000000	Freshwater	Flow Through
OPP	83657-17-4	Uniconazole	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	6800.000000	Freshwater	Static
OPP	83657-17-4	Uniconazole	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	14800.000000	Freshwater	Static
CERC-GED	8027-85-8	Ureabor	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	640000.000000	Freshwater	Static
CERC-GED	8027-85-8	Ureabor	Oncorhynchus tshawytscha	Chinook salmon	96 hr	LC50	352000.000000	Freshwater	Static
OPP	1929-77-7	Vernolate	Americamysis bahia	Mysid	96 hr	LC50	4400.000000	Saltwater	Flow Through
OPP	1929-77-7	Vernolate	Crassostrea virginica	Eastern oyster	96 hr	EC50	1700.000000	Saltwater	Flow Through
OPP	1929-77-7	Vernolate	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	7400.000000	Saltwater	Flow Through
OPP	1929-77-7	Vernolate	Daphnia magna	Water flea	48 hr	EC50	1800.000000	Freshwater	Static
OPP	1929-77-7	Vernolate	Daphnia magna	Water flea	48 hr	EC50	7600.000000	Freshwater	Static
CERC-GED	1929-77-7	Vernolate	Gammarus fasciatus	Scud	96 hr	LC50	14000.000000	Freshwater	Static
OPP	1929-77-7	Vernolate	Gammarus lacustris	Scud	96 hr	LC50	18000.000000	Freshwater	Static
OPP	1929-77-7	Vernolate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	4800.000000	Freshwater	Static
OPP	1929-77-7	Vernolate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	3500.000000	Freshwater	Static
CERC-GED	1929-77-7	Vernolate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	4300.000000	Freshwater	Static
OPP	50471-44-8	Vinclozolin	Americamysis bahia	Mysid	96 hr	LC50	1800.000000	Saltwater	Flow Through
OPP	50471-44-8	Vinclozolin	Crassostrea virginica	Eastern oyster	96 hr	EC50	3200.000000	Saltwater	Flow Through
OPP	50471-44-8	Vinclozolin	Daphnia magna	Water flea	48 hr	EC50	3650.000000	Freshwater	Static
OPP	50471-44-8	Vinclozolin	Lepomis gibbosus	Pumpkinseed	96 hr	LC50	49800.000000	Freshwater	Static
OPP	50471-44-8	Vinclozolin	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	47500.000000	Freshwater	Static
OPP	50471-44-8	Vinclozolin	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2840.000000	Freshwater	Static
OPP	81-81-2	Warfarin	Daphnia magna	Water flea	48 hr	EC50	130000.000000	Freshwater	Static
CERC-GED	81-81-2	Warfarin	Ictalurus punctatus	Channel catfish	96 hr	LC50	34.300000	Freshwater	Static
CERC-GED	1330-20-7	Xylene	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	13500.000000	Freshwater	Static
CERC-GED	3096-70-6	Xylene Dimethylamino	Perca flavescens	Yellow perch	96 hr	LC50	3400.000000	Freshwater	Static
OPP	53939-28-9	Z-11-Hexadecanol	Daphnia magna	Water flea	48 hr	EC50	1000.000000	Freshwater	Static
OPP	53939-28-9	Z-11-Hexadecanol	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	320000.000000	Freshwater	Static
OPP	12447-61-9	Zinc borate	Daphnia magna	Water flea	48 hr	EC50	75000.000000	Freshwater	Static
OPP	12447-61-9	Zinc borate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	2700000.000000	Freshwater	Static
ECOTOX	7646-85-7	Zinc chloride	Daphnia magna	Water flea	48 hr	EC50	100.000000	Freshwater	Static
ECOTOX	7646-85-7	Zinc chloride	Daphnia magna	Water flea	48 hr	LC50	334.000000	Freshwater	Static
OPP	12001-85-3	Zinc naphthenate	Daphnia magna	Water flea	48 hr	EC50	4600.000000	Freshwater	Static
OPP	12001-85-3	Zinc naphthenate	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	1530.000000	Freshwater	Static Renewal
OPP	13463-41-7	Zinc Omadine	Americamysis bahia	Mysid	96 hr	LC50	4.700000	Saltwater	Flow Through
OPP	13463-41-7	Zinc Omadine	Crassostrea virginica	Eastern oyster	96 hr	EC50	22.000000	Saltwater	Flow Through
OPP	13463-41-7	Zinc Omadine	Cyprinodon variegatus	Sheepshead minnow	96 hr	LC50	400.000000	Saltwater	Static Renewal

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**Appendix 1**  
**Final Acute Toxicity Database**

OPP	13463-41-7	Zinc Omadine	Daphnia magna	Water flea	48 hr	EC50	8.250000	Freshwater	Flow Through
OPP	13463-41-7	Zinc Omadine	Pimephales promelas	Fathead minnow	96 hr	LC50	2.680000	Freshwater	Flow Through
OPP	1314-13-2	Zinc oxide	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	1100.000000	Freshwater	Static
ECOTOX	7733-02-0	Zinc sulfate	Daphnia magna	Water flea	48 hr	LC50	280.000000	Freshwater	Static
ECOTOX	7733-02-0	Zinc sulfate	Daphnia pulex	Water flea	48 hr	LC50	500.000000	Freshwater	Static
CERC-GED	7733-02-0	Zinc sulfate	Menidia peninsulae	Tidelwater silverside	96 hr	LC50	5600.000000	Saltwater	Static
CERC-GED	7733-02-0	Zinc sulfate	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	130.000000	Freshwater	Static
CERC-GED	7733-02-0	Zinc sulfate	Oncorhynchus clarki	Cutthroat trout	96 hr	LC50	152.000000	Freshwater	Static
ECOTOX	7733-02-0	Zinc sulfate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	370.000000	Freshwater	Flow Through
ECOTOX	7733-02-0	Zinc sulfate	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	517.000000	Freshwater	Flow Through
ECOTOX	7733-02-0	Zinc sulfate	Pimephales promelas	Fathead minnow	96 hr	LC50	5100.000000	Freshwater	Flow Through
ECOTOX	7733-02-0	Zinc sulfate	Pimephales promelas	Fathead minnow	96 hr	LC50	13700.000000	Freshwater	Flow Through
ECOTOX	7733-02-0	Zinc sulfate	Salvelinus fontinalis	Brook trout	96 hr	LC50	1550.000000	Freshwater	Flow Through
OPP	137-30-4	Ziram	Crassostrea virginica	Eastern oyster	96 hr	EC50	1000.000000	Saltwater	Flow Through
OPP	137-30-4	Ziram	Cyprinus carpio	Common carp	96 hr	LC50	2280.000000	Freshwater	Static Renewal
OPP	137-30-4	Ziram	Daphnia magna	Water flea	48 hr	EC50	48.000000	Freshwater	Static
OPP	137-30-4	Ziram	Lepomis macrochirus	Bluegill sunfish	96 hr	LC50	9.700000	Freshwater	Flow Through
OPP	137-30-4	Ziram	Oncorhynchus mykiss	Rainbow trout	96 hr	LC50	270.000000	Freshwater	Static Renewal
OPP	137-30-4	Ziram	Pimephales promelas	Fathead minnow	96 hr	LC50	8.000000	Freshwater	Static

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## **Appendix II - A**

**Summary of Number of Species Tested Per Chemical**

**Freshwater Fishes**



**Appendix II - A**  
**Summary of Number of Species Tested per Chemical**

FRESHWATER FISHES	
Chemical	# Spp
DDT	18
Carbaryl	17
Mexacarbate	16
Azinphos-methyl	15
Clonitralide (Niclosamide (ethanolamine salt))	15
Malathion	13
Antimycin A	12
Hexachlorocyclohexane (Lindane)	12
Methoxychlor	12
Fenitrothion	11
Methyl Parathion	11
Toxaphene	11
Piperonyl butoxide	10
Aminocarb	9
Captan	8
Chlordane	8
Methomyl	8
Pentachlorophenol	8
Permethrin	8
Trichlorfon	8
Carbofuran	7
Demeton	7
Endrin	7
Folpet	7
Parathion	7
Phoxim	7
2,4-D Dodecyl/Tetradodecyl Amine Salt	6
Chlorpyrifos	6
Coumaphos	6
Dieldrin	6
Disulfoton	6
Hexachlorocyclohexane (Benzene hexachloride)	6
Metolachlor	6
Molinate	6
Phosmet	6
Pyrethrum (Pyrethrin)	6
2,4-D Acid	5
Cadmium chloride	5
Copper sulfate	5
Crotoxyphos	5
DDD	5
Diazinon	5
Dichlobenil	5
Dichlorvos	5
Dinitramine	5
Diuron	5
Ethion	5
Fenthion	5
Ocithilinone	5

**Appendix II - A**  
**Summary of Number of Species Tested per Chemical**

Phos-Check 202	5
Phos-Check 259	5
Picloram	5
Propoxur	5
Pydraul 50E	5
Resmethrin	5
RU-11679	5
Silvex	5
Temephos	5
1,2-Benzenedicarboxylic acid, Dibutyl ester (Phthalate Dibutyl)	4
2,3,4,6-Tetrachlorophenol	4
2,4-D Butoxyethanol ester	4
2,4-D Butyl ester	4
Allethrin (D-Trans Allethrin)	4
Amdro (Pyrimidinone)	4
Ametryn	4
Atrazine	4
Benomyl	4
Binapacryl	4
Chlordecone (Kepone)	4
Chlorendate dimethyl	4
Chlorpyrifos-methyl	4
Dichlofenthion	4
Dicofol	4
EPTC	4
Fenoxaprop-ethyl	4
Fenvalerate	4
Fluridone	4
Fyrquel GT	4
Glyphosate	4
Heptachlor	4
Leptophos	4
MON 0818	4
Nitrapyrin	4
Oxamyl	4
Propiconazole	4
Purifloc C-3	4
Thiodicarb	4
Trifluralin	4
Zinc sulfate	4
Ziram	4
1,3-Dichloropropene	3
1,4-Dichlorobenzene (Paradichlorobenzene)	3
2,4-D Dimethylamine Salt	3
2,4-D Propylene glycol butyl ether ester	3
2,4-DB Acid	3
3-Iodo-2-propynyl butylcarbamate	3
Aldrin	3
Anilazine	3
Aqua Cop	3
Aqua-Vator	3
Avermectin	3
Benefin - Benfluralin	3
Benzothiazole 2-mercapto	3
Benzothiazole 2-methyl mercapto	3

**Appendix II - A**  
**Summary of Number of Species Tested per Chemical**

Carbophenothion	3
Chlordane-HCS-3260	3
Chlorothalonil	3
Cimecticarb	3
Correx (Lignasan BLP)	3
Dazomet	3
DBNPA	3
DDE	3
DEF (Tribuphos)	3
Dicloran (DCNA)	3
Dicrotrophos	3
Dimethrin	3
Dinocap	3
Diphacinone	3
Emamectin benzoate	3
Endosulfan	3
EPN	3
Ethalfluralin	3
Fenoxy carb	3
Fenpropathrin	3
Fipronil	3
Fire-Trol 931	3
Fluazinam	3
Fluchloralin	3
Fluometuron	3
Flutolanil	3
Houghto-Safe 1120	3
Imazethapyr (Acid)	3
Isofenphos	3
Linuron	3
Mercuric chloride	3
Merphos	3
Methidathion	3
Methyl anthralinate	3
Methyl Trithion	3
Naled	3
Oxine-copper	3
Parathion Dithioate Analogue	3
Pendimethalin	3
Pentachlorophenol, Sodium salt	3
Phosflex 31P	3
Phosphamidon	3
Potassium dichloroisocyanurate	3
Profenofos	3
Prometryn	3
Pydraul 115E	3
Ronnel	3
Rotenone	3
Santicizer 154	3
SD 16898	3
SD 17250	3
Simazine	3
TEPP	3
Terbufos	3
Thiobencarb/Benthiocarb	3

**Appendix II - A**  
**Summary of Number of Species Tested per Chemical**

Triadimefon	3
Triadimenol	3
Triallate	3
Tributyltin fluoride(TBTF)	3
Tributyltin oxide	3
Triclopyr BEE	3
Triflumizole	3
Triphenyl phosphate	3
Triphenyltin hydroxide	3
Uniconazole	3
Vinclozolin	3
1,1,1-Trichloroethane (Methyl chloroform)	2
1,2-Dichlorobenzene	2
2,4-D Isooctyl Ester	2
2,4-D Isopropyl Ester	2
2,4-DP, 2-EH Ester	2
2-Benzyl-4-chlorophenol	2
2-Hydroxyethyl octyl sulfide	2
4-Aminopyridine	2
4-Chloro-3,5-xylenol	2
4-Nitrophenol	2
6-Chloro-2-picolinic acid	2
Acetaldehyde	2
Akton	2
Alachlor	2
Aldicarb	2
Alkyl Amine Hydrochloride	2
Amitraz	2
Amitraz (Degrad)	2
Ammonium chloride - ADBAC	2
Ammonium chloride - DDAC	2
Azide, potassium	2
Azide, sodium	2
Azoxystrobin	2
Barium metaborate	2
Bendiocarb	2
Bensulide	2
Bentazon	2
Benzoylprop ethyl	2
Bifenazate	2
Bioresmethrin	2
Brodifacoum	2
Bromacil	2
Bromine chloride	2
Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH)	2
Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH) - BCDMH dehydrate	2
Bromonitrostyrene	2
Bromoxynil (Butyrate)	2
Bromoxynil (Phenol)	2
Bromuconazole	2
Bronopol	2
Butralin	2
Butylate	2
Captafol	2
Carboxin	2

**Appendix II - A**  
**Summary of Number of Species Tested per Chemical**

Carfentrazone-ethyl (F8246)	2
CCA Type III	2
Chlorbromuron	2
Chlordimeform	2
Chlорfenethol	2
Chlorhexidine diacetate	2
Chlorobenzilate	2
Chloroneb	2
Chlorophacinone	2
Chloropicrin	2
Chloroxuron	2
Chlorpropham	2
Clodinafop-propargyl	2
Clopyralid, monoethanolamine salt	2
Coal Tar	2
Copper sulfate, pentahydrate	2
Cupric chloride	2
Cuprous thiocyanate	2
Cycloate	2
Cyhalothrin	2
Cyhexatin (Plictran)	2
Cymoxanil	2
Cypermethrin	2
Cyprazine	2
Cyproconazole	2
Cyprodinil	2
Daminozide	2
DCDMH (Glychlor Formulation)	2
D-D Soil Fumigant	2
Deltamethrin	2
Desmedipham	2
Dibromodicyanobutane	2
Dichloro-2-n-octyl-3(2H)-isothiazolone	2
Diclofop-methyl	2
Dienochlor	2
Difenoconazole	2
Difenoquat	2
Difethialone	2
Diflubenzuron	2
Diiodomethyl p-tolyl sulfone	2
Dilan	2
Dimethenamid	2
Dimethenamid - (S)-Dimethenamid	2
Dimethepin	2
Dinoseb	2
Diphenamid	2
Dipropyl isocinchomeronate	2
Dithianon	2
Dithio-3-one,4,5-dichloro	2
Dithiopyr	2
DNOC	2
Dodine	2
Dowicil	2
DTEA	2
Ecolyst	2

**Appendix II - A**  
**Summary of Number of Species Tested per Chemical**

Ethofumesate	2
Ethoprop	2
Fatty Acids - Potassium salt of Oleic Acid	2
Fenarimol	2
Fenbuconazole	2
Fenbutatin Oxide	2
Fenhexamid	2
Fenridazole-sodium	2
Ferrous sulfate heptahydrate	2
Ferrous sulfate monohydrate	2
Flamprop-methyl	2
Flumetralin	2
Fluorodifen	2
Fluthiacet methyl	2
Fluvalinate	2
Fonofos	2
Formetanate Hydrochloride	2
Fosamine ammonium	2
Fosetyl-Al	2
Fospirate	2
Geraniol	2
Hexachlorobutadiene	2
Imazalil	2
Imazethabenz	2
Imiprothrin (Pralle)	2
Iprodione	2
Irgarol	2
Isopropalin	2
Jodenphos	2
Kronitex 200	2
Lime sulfur (Calcium polysulfide)	2
MBC - Carbendazim	2
MCPA Acid	2
MCPB	2
Metalaxyll	2
Methiocarb	2
Methoprene	2
Methyl isothiocyanate	2
Methyl nonyl ketone	2
Metribuzin	2
Mevinphos	2
Mitin FF	2
MTI	2
Napropamide	2
Naptalam, Sodium	2
Naphthaleneacetic acid	2
N-methylneodecanamide	2
n-octyl bicycloheptene dicarboximide (MGK-264)	2
Norea	2
Norflurazon	2
OBPA	2
O-Phenylphenol	2
Ortho 11775	2
Oryzalin	2
Oxadiazon	2

**Appendix II - A**  
**Summary of Number of Species Tested per Chemical**

Oxazolidine E	2
Oxydemeton-methyl	2
Oxyfluorfen	2
Oxythioquinox	2
Paclobutrazol	2
PCB Aroclor 1016	2
Pentachloronitrobenzene (PCNB)	2
Phenmedipham	2
Phorate	2
Phostebupirim	2
Picloram, potassium salt	2
Pine oil	2
Pirimicarb	2
Pival	2
POE Isooctadecanol	2
Pralieuthrin	2
Prometon	2
Propachlor	2
Propargite	2
Propetamphos	2
Propionic acid	2
Pyridaben	2
Quizalofop, Ethyl	2
Santicizer 148	2
s-Bioallethrin	2
Sethoxydim	2
Siduron	2
Silver nitrate	2
Silvex Butoxyethanol Ester	2
Silvex Propylene Glycol Butyl Ether Ester	2
Sodium dichloroisocyanuratedihydrate	2
Sodium dichloro-s-triazinetrione	2
Sodium fluoride	2
Sodium selenite	2
Strychnine	2
Sulfotepp	2
Sumithrin	2
Tebuconazole	2
Tebufenozide	2
Tebuthiuron	2
Tefluthrin	2
Terbacil	2
Terbutylazine	2
Terbutryn	2
Terpene polychlorinate	2
Tetradifon	2
Tetramethrin	2
TFM/Bayer 73	2
Thiabendazole	2
Thiazopyr	2
Thiocyanate - Methylenebis	2
Thiophanate-methyl	2
Thiram	2
Tralomethrin	2
Tributyltin neodecaroate	2

**Appendix II - A**  
**Summary of Number of Species Tested per Chemical**

Trichloromelamine	2
Trichloromethane	2
Trichloro-s-triazinetrione	2
Triclopyr, acid	2
Triethylhexahydro-s-triazine (Vancide TH)	2
Trifloxystrobin	2
Trimethacarb	2
Tris(hydroxymethyl)nitromethane	2
Ureabor	2
Vernolate	2
1,1,2,2-Tetrachloroethane	1
1,2,4-Trichlorobenzene	1
1,2-Benzenedicarboxaldehyde	1
1,2-Benzenedicarboxylic acid, Dimethyl ester	1
1,2-Dichloroethane	1
1,2-Dichloropropane	1
1,3-Dichloropropane	1
2,3,6-Trichlorobenzoic acid	1
2,4-D Oleylpropylenediamine salt	1
2,4-Dinitrophenol	1
2,4-DP, Dichlorprop	1
3-Chloro-p-toluidine hydrochloride	1
4,4-Dimethyloxazolidine	1
Acephate	1
Acetochlor	1
Acetone	1
Acrolein (2-Propenal)	1
Aldoxycarb	1
Aluminum nitrate	1
Aluminum sulfate	1
Ammonium chloride	1
Aramite	1
Arsenite - Sodium	1
Aspon	1
Azinphos-ethyl	1
Bacillus thuringiensis	1
Benzothiazolin-3-one	1
Bioban P-1487	1
Bis(trichloromethyl)Sulfone	1
Bromethalin	1
Bromoxynil heptanoate	1
Bufencarb	1
Cacodylic Acid/Sodium Cacodylate	1
Chlordane cis	1
Chlordane trans	1
Chlorfenvinphos	1
Chlorimuron Ethyl	1
Chloromethane	1
Chlorsulfuron	1
Chromic acid, Dipotassium salt	1
Citronella oil	1
Clarifite	1
Copper napthenate	1
Creosote-Coal Tar Distillate	1
Crufomate	1

**Appendix II - A**  
**Summary of Number of Species Tested per Chemical**

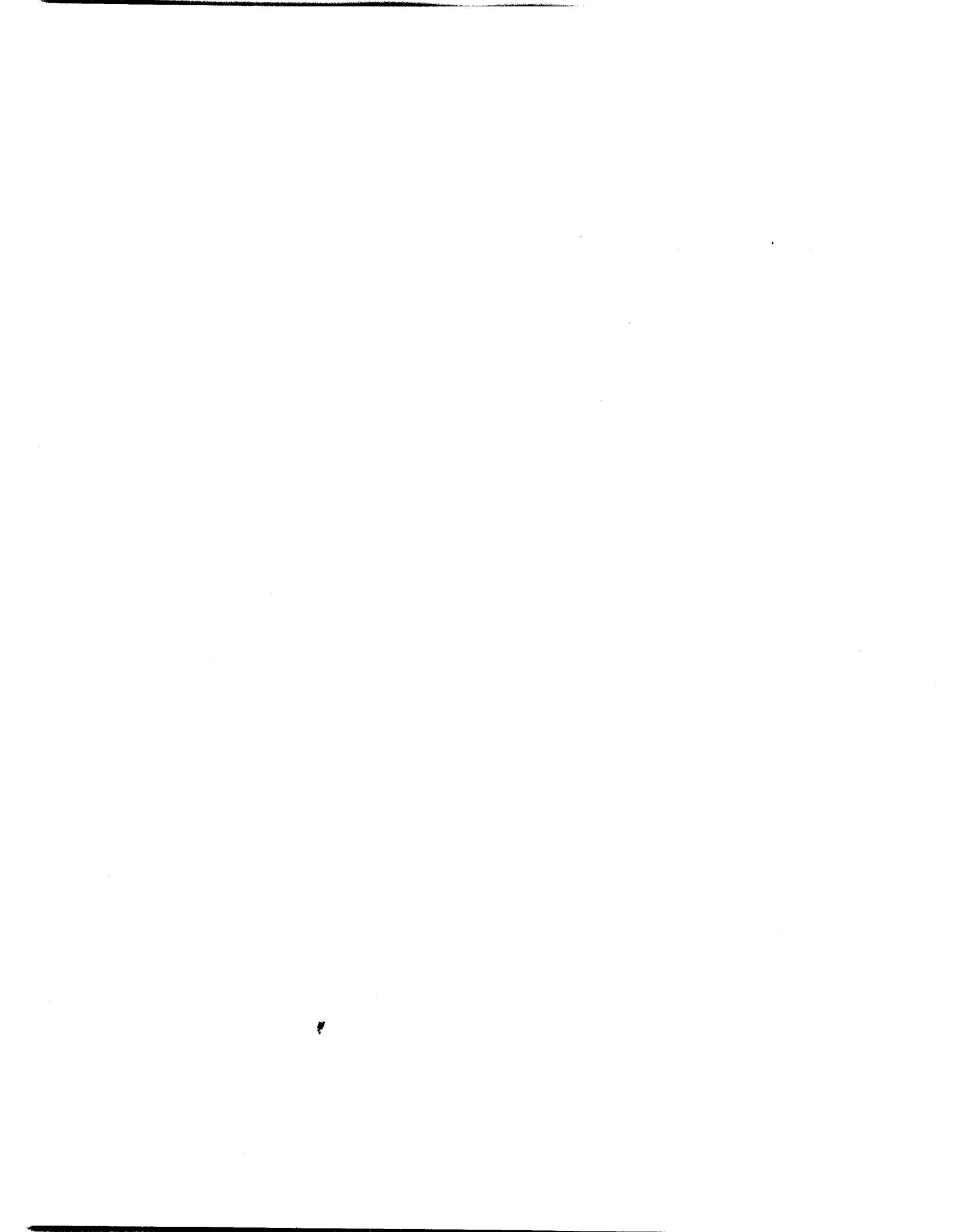
Cupric nitrate	1
Cutrine-Plus	1
Cyanazine	1
Cyphenothrin	1
DCPA (Dacthal)	1
Decanol	1
Dicamba (Acid)	1
Diflufenzopyr-sodium	1
Dimethoate	1
Dimethomorph	1
Dinobuton	1
Dioxathion	1
Emcol AD-410	1
Ethoxyquin	1
Ethylan	1
Ethylene glycol	1
Etridiazole	1
Farnesol	1
Fatty alcohols	1
Fenaminosulf	1
Fenamiphos sulfoxide Degr.	1
Fensulfothion	1
Flufenacet	1
Flumiclorac pentyl	1
Fluroxypyr acid	1
Flurprimidol	1
Glutaraldehyde	1
Heptachlor Epoxide	1
Hexachlorobenzene	1
Hexachloroethane	1
Hexadecadienol,acetate	1
Hexazinone	1
Hexythiazox (DPX-Y5893)	1
Hydrogen cyanamide	1
Hypochlorite - Calcium (Hypochlorous acid, Calcium salt)	1
Imidacloprid	1
Inert-HOE (Aldicarb)	1
Iodine complex	1
Isocyanuric acid	1
Isoxaflutole(Degrad)	1
Komeen	1
Kresoxim methyl	1
Limonene	1
Mancozeb	1
MCPA Dimethylamine salt	1
MCPP Acid	1
Metaldehyde	1
Methamidophos	1
Methanol	1
Methoprotryne	1
Methyl bromide	1
Metolachlor-s-isomer	1
Monocrotophos	1
Monuron	1
Monuron TCA	1

**Appendix II - A**  
**Summary of Number of Species Tested per Chemical**

N,N-Diethyl-meta-toluamide(DEET)	1
Naphthalene acetate - potassium	1
Neodol 25-12	1
Neodol 25-9	1
Neurolidol	1
Nickelous chloride	1
Nonanoic acid	1
Ovex	1
Parachlorometacresol	1
Paraquat	1
Parathion - Paraoxon (Parathion Degrad)	1
Paroil 1032	1
Paroil 1048	1
PCB 2-Chlorobiphenyl	1
PCB 3-Chlorobiphenyl	1
PCB 4-Chlorobiphenyl	1
PCB Aroclor 1254	1
Pebulate	1
Pentachlorophenol, Copper Salt	1
PHMB	1
Phorazetim	1
Picloram TIPA	1
Piperalin	1
Potassium permanganate	1
Primingulfuron-methyl	1
Prodiamine	1
Propham	1
Propyl Isome	1
Propylene Glycol	1
Pyrazole	1
Quinclorac	1
Rowmate	1
SD 7438	1
SD 8339	1
Sodium 2-mercaptobenzothiolate	1
Sodium 2-phenylphenate	1
Sodium chloride	1
Sodium cyanide	1
Sodium fluoroacetate	1
Sodium tetrathiocarbamate	1
Sulfentrazone	1
Sulfuric acid, Copper(2+) salt(1:1)	1
TCMTB	1
Tetrachloroethene	1
Tetrachloromethane	1
Tetrachlorvinphos	1
Tetramine	1
Tetasul	1
Tranid	1
Tretolite J-146	1
Tretolite JN-9045	1
Tretolite JW-8226	1
Trichloronate	1
Triclosan	1
UC 10854	1

**Appendix II - A**  
**Summary of Number of Species Tested per Chemical**

Warfarin	1
Xylene	1
Xylene Dimethylamino	1
Z-11-Hexadecanol	1
Zinc borate	1
Zinc naphthenate	1
Zinc Omadine	1
Zinc oxide	1



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## **Appendix II - B**

**Summary of Number of Species Tested Per Chemical**

**Freshwater Invertebrates**



**Appendix II - B**  
**Summary of Number of Species Tested per Chemical**

FRESHWATER INVERTEBRATES	
Chemical	# Spp
DDT	17
Endrin	15
Malathion	14
Carbaryl	11
Trichlorfon	10
Toxaphene	9
DDD	8
Dieldrin	8
Fenitrothion	8
Methoxychlor	8
Parathion	8
Cadmium chloride	7
Fenthion	7
Heptachlor	7
Hexachlorocyclohexane (Lindane)	7
Phosphamidon	7
Aldrin	6
Methiocarb	6
Mexacarbate	6
2,4-D Propylene glycol butyl ether ester	5
Aminocarb	5
Arsenite - Sodium	5
Azinphos-methyl	5
Copper sulfate	5
DEF (Tribuphos)	5
Diazinon	5
Dichlorvos	5
Diuron	5
Ethion	5
Mevinphos	5
Naled	5
Allethrin (D-Trans Allethrin)	4
Azide, potassium	4
Azide, sodium	4
Azinphos-ethyl	4
Chlordane	4
Chlorpyrifos	4
Dead-X	4
Dicrotophos	4
Endosulfan	4
Methomyl	4
Methyl Parathion	4
Molinate	4
Paraquat	4
Permethrin	4
Phosmet	4
Picloram	4
Silvex Propylene Glycol Butyl Ether Ester	4
Trifluralin	4

**Appendix II - B**  
**Summary of Number of Species Tested per Chemical**

2,4-D Butoxyethanol ester	3
4-Nitrophenol	3
Aluminum chloride	3
Benomyl	3
Chlordecone (Kepone)	3
Cypermethrin	3
Dichlofenthion	3
Disulfoton	3
DNOC	3
EPN	3
Fenac	3
Fenvalerate	3
Fluridone	3
Fyrquel GT	3
Pentachlorophenol	3
Phosflex 31P	3
Profenos	3
Propoxur	3
Pydraul 50E	3
Rotenone	3
Santicizer 148	3
Santicizer 154	3
Temephos	3
Terbufos	3
Vernolate	3
1,1,1-Trichloroethane (Methyl chloroform)	2
2,4-D Isooctyl Ester	2
2,4-DB Acid	2
Acephate	2
Alachlor	2
Amdro (Pyrimidinone)	2
Anilazine	2
Arsenic oxide (As203)	2
Atrazine	2
Bensulide	2
Benzothiazole 2-methyl mercapto	2
Butylate	2
CCA Type III	2
Chlорfenvinphos	2
Chlorobenzilate	2
Clonitralide (Niclosamide (ethanolamine salt))	2
Coumaphos	2
Cryolite	2
Cycloate	2
Cyhexatin (Plictran)	2
Dalapon	2
Demeton	2
Dioxathion	2
Dodine	2
EPTC	2
Fenaminosulf	2
Fenoxyprop-ethyl	2
Fluchloralin	2
Fluometuron	2
Folpet	2

**Appendix II - B**  
**Summary of Number of Species Tested per Chemical**

Glyphosate	2
Hexachlorocyclohexane (Benzene hexachloride)	2
Lime sulfur (Calcium polysulfide)	2
Linuron	2
Mercuric chloride	2
Methyl Demeton	2
Methyl Trithon	2
Metolachlor	2
Nitric acid, Lead (2+) salt	2
Oxamyl	2
Oxydemeton-methyl	2
PCB Aroclor 1254	2
Pentachlorophenol, Copper Salt	2
Phenol	2
Phorate	2
Propachlor	2
Propham	2
Propiconazole	2
Silver nitrate	2
Simazine	2
Sodium selenite	2
SRCl Synfuel	2
Thanite	2
Thiobencarb/Benthiocarb	2
Thiophanate-methyl	2
Zinc sulfate	2
1,2-Benzenedicarboxaldehyde	1
1,2-Benzenedicarboxylic acid, Dibutyl ester (Phthalate Dibutyl)	1
1,2-Dichlorobenzene	1
1,3-Dichloropropene	1
1,4-Dichlorobenzene (Paradichlorobenzene)	1
2-(Hydroxymethyl)amino)ethanol	1
2,3,4,6-Tetrachlorophenol	1
2,4-D Acid	1
2,4-D Butyl ester	1
2,4-D Isopropyl Ester	1
2,4-Dinitrophenol	1
2-Benzyl-4-chlorophenol	1
2-Ethylhexanol	1
2-Hydroxyethyl octyl sulfide	1
3-Chloro-p-toluidine hydrochloride	1
3-Iodo-2-propynyl butylcarbamate	1
3-phenoxy benzoic acid (cypermethrin degradation product)	1
4-Chloro-3,5-xylenol	1
Acetaldehyde	1
Acetochlor	1
Aldicarb	1
Aldoxycarb	1
Alkyl Amine Hydrochloride	1
Ametryn	1
Amitraz	1
Amitrole	1
Ammonium chloride - ADBAC	1
Ammonium chloride - Chloroethyl trimethyl	1
Ammonium chloride - DDAC	1

**Appendix II - B**  
**Summary of Number of Species Tested per Chemical**

Aramite	1
Asulam	1
Avermectin	1
Azoxystrobin	1
Bacillus thuringiensis	1
Barium metaborate	1
Bendiocarb	1
Benefin - Benfluralin	1
Bifenazate	1
Bioresmethrin	1
Bis(trichloromethyl)Sulfone	1
Boric acid	1
Brodifacoum	1
Bromacil	1
Bromadiolone	1
Bromethalin	1
Bromine chloride	1
Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH)	1
Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH) - BCDMH dehydrate (	1
Bromonitrostyrene	1
Bromoxynil (Butyrate)	1
Bromoxynil (Phenol)	1
Bromoxynil heptanoate	1
Bronopol	1
Bufencarb	1
Butoxy polypropylene glycol	1
Butralin	1
Cacodylic Acid/Sodium Cacodylate	1
Calcium chloride	1
Captafol	1
Captan	1
Carbofuran	1
Carbophenothion	1
Carboxin	1
Chlорfenethol	1
Chlorhexidine diacetate	1
Chloroneb	1
Chlorophacinone	1
Chloropicrin	1
Chlorothalonil	1
Chlorpropham	1
Chlorpyrifos-methyl	1
Chlorsulfuron	1
Citronella oil	1
Clopyralid, monoethanolamine salt	1
Copper sulfate, pentahydrate	1
Correx (Lignasan BLP)	1
Crotoxyphos	1
Cupric chloride	1
Cutrine-Plus	1
Cyanazine	1
Cyclanilide	1
Cyhalothrin	1
Cymoxanil	1
Cyproconazole	1

**Appendix II - B**  
**Summary of Number of Species Tested per Chemical**

Cyprodinil	1
Daminozide	1
Dazomet	1
DBNPA	1
DCDMH (Glychlor Formulation)	1
Decanol	1
Deltamethrin	1
Desmedipham	1
Dibromodicyanobutane	1
Dichlobenil	1
Dichloro-2-n-octyl-3(2H)-isothiazolone	1
Diclofop-methyl	1
Dicloran (DCNA)	1
Diclosulam (XR-564, XDE-564)	1
Dicofol	1
Dienochlor	1
Difenoconazole	1
Difenoquat	1
Difethialone	1
Diflubenzuron	1
Diflufenzopyr-sodium	1
Diiodomethyl p-tolyl sulfone	1
Dilan	1
Dimethenamid	1
Dimethenamid - (S)-Dimethenamid	1
Dimethhepin	1
Dimethoate	1
Dinocap	1
Diphacinone	1
Dipropyl isocinchomeronate	1
Dithio-3-one,4,5-dichloro	1
Dithiopyr	1
Dowicil	1
DTEA	1
Ecolyst	1
Emamectin benzoate	1
Ethalfluralin	1
Ethofumesate	1
Ethoprop	1
Ethoxyquin	1
Etridiazole	1
Farnesol	1
Fatty Acids - Potassium salt of Oleic Acid	1
Fatty alcohols	1
Fenarimol	1
Fenbuconazole	1
Fenbutatin Oxide	1
Fenoxy carb	1
Fenpropothrin	1
Fenridazone-sodium	1
Fensulfothion	1
Ferrous sulfate heptahydrate	1
Ferrous sulfate monohydrate	1
Fluazinam	1
Flumetsulam	1

**Appendix II - B**  
**Summary of Number of Species Tested per Chemical**

Flurprimidol	1
Fluvalinate	1
Fomesafen	1
Fonofos	1
Formetanate Hydrochloride	1
Fosamine ammonium	1
Fosetyl-Al	1
Glufosinate-ammonium	1
Glyodin	1
Halofenoxide	1
Hexadecadienol,acetate	1
Hexaflumuron	1
Hexazinone	1
Hexythiazox (DPX-Y5893)	1
Hymexazol	1
Imazalil	1
Imazethabenz	1
Imidacloprid	1
Imiprothrin (Pralle)	1
Indole-3-butyric acid	1
Inert-HOE (Aldicarb)	1
Inert-HOE (Butyl S(-) lactate)	1
Inert-HOE (Ethyl S(-) lactate)	1
Iodine	1
Iprodione	1
Irgarol	1
Isofenphos	1
Isopropalin	1
Komeen	1
Kresoxim methyl	1
Kronitex 200	1
Lethane 384	1
Lithium perfluorooctane sulfon	1
Magnesium chloride	1
Maleic Hydrazide	1
MBC - Carbendazim	1
Metalaxyll	1
Metam sodium	1
Methamidophos	1
Methidathion	1
Methoprene	1
Methoxyfenozide	1
Methyl bromide	1
Methyl isothiocyanate	1
Methyl nonyl ketone	1
Metolachlor-s-isomer	1
Metribuzin	1
Mineral oil (incl. parafin oil	1
MON 0818	1
Monocrotophos	1
MTI	1
N,N-Diethyl-meta-toluamide(DEET)	1
Napropamide	1
Naptalam, Sodium	1
Naphthaleneacetic acid	1

**Appendix II - B**  
**Summary of Number of Species Tested per Chemical**

Neurolidol	1
Nickelous chloride	1
Nitrapyrin	1
Nitrofen	1
N-methylneodecanamide	1
n-octyl bicycloheptene dicaboximide (MGK-264)	1
Nonanoic acid	1
Norea	1
OBPA	1
Ocithilinone	1
Oryzalin	1
Ovex	1
Oxadiazon	1
Oxadixyl	1
Oxazolidine E	1
Oxine-copper	1
Oxythioquinox	1
Paclobutrazol	1
Parachlorometacresol	1
PCB 2,2',4,4',6,6'-Hexachlorobiphenyl	1
PCB 2,2',4,5,5'-Pentachlorobiphenyl	1
PCB 2,3,4'-Trichlorobiphenyl	1
PCB 2,4-Dichlorobiphenyl	1
PCB 4,4'-Dichlorobiphenyl	1
PCB Aroclor 1242	1
PCB Aroclor 1248	1
Pebulate	1
Pendimethalin	1
Pentachloronitrobenzene (PCNB)	1
Pentachlorophenol, (Dowicide EC-7)	1
Phos-Check 202	1
Phostebupirim	1
Phoxim	1
Pine oil	1
Piperalin	1
Piperonyl butoxide	1
Pirimicarb	1
Pirimiphos-methyl	1
POE Isooctadecanol	1
Potassium chloride	1
Potassium dichloroisocyanurate	1
Potassium permanganate	1
Prallethrin	1
Prometon	1
Prometryn	1
Propargite	1
Propetamphos	1
Propionic acid	1
Pymetrozine	1
Pyrazole	1
Pyrethrum (Pyrethrin)	1
Pyridaben	1
Pyridate	1
Pyriproxyfen	1
Quinclorac	1

**Appendix II - B**  
**Summary of Number of Species Tested per Chemical**

Quizalofop, Ethyl	1
Resmethrin	1
Rimsulfuron	1
Selenium dioxide	1
Sethoxydim	1
Silver-Zinc Zeolite	1
Silvex Butoxyethanol Ester	1
Sodium 2-mercaptobenzothiolate	1
Sodium 2-phenylphenate	1
Sodium cyanide	1
Sodium dichloroisocyanuratedihydrate	1
Sodium dichloro-s-triazinetrione	1
Sodium fluoroacetate	1
Streptomycin	1
Strychnine	1
Sulfentrazone	1
Sulfluramid	1
Sulfotepp	1
Sulprofos sulfoxide	1
TCMTB	1
Tebuconazole	1
Tebufenozide	1
Tebuthiuron	1
Tefluthrin	1
TEPP	1
Terbacil	1
Terbutylazine	1
Terpene polychlorinate	1
Tetrachloroethene	1
Tetrachlorvinphos	1
Tetradifon	1
Tetramethrin	1
Tetramine	1
TFM	1
Thiabendazole	1
Thiazopyr	1
Thidiazuron	1
Thiocyanate - Methylenebis	1
Thiodicarb	1
Tralomethrin	1
Tretolite J-146	1
Triadimefon	1
Triadimenol	1
Triallate	1
Tributyltin fluoride(TBTF)	1
Tributyltin neodecaroate	1
Tributyltin oxide	1
Trichloromelamine	1
Trichloronate	1
Trichloro-s-triazinetrione	1
Triclopyr, acid	1
Triclopyr, triethylamine salt	1
Triclosan	1
Tricosene	1
Tridecen-1-yl acetate	1

**Appendix II - B**  
**Summary of Number of Species Tested per Chemical**

Triethylhexahydro-s-triazine (Vancide TH)	1
Trifloxystrobin	1
Triflumizole	1
Triphenyltin hydroxide	1
Tris(hydroxymethyl)nitromethane	1
Vinclozolin	1
Warfarin	1
Z-11-Hexadecanol	1
Zinc borate	1
Zinc chloride	1
Zinc naphthenate	1
Zinc Omadine	1
Ziram	1



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## **Appendix II - C**

**Summary of Number of Species Tested Per Chemical**

**Saltwater Fishes**



**Appendix II - C**  
**Summary of Number of Species Tested per Chemical**

SALTWATER FISHES	
Chemical	# Spp
Chlorpyrifos	9
Fenvalerate	6
Dichlorvos	4
Thiobencarb/Benthiocarb	4
Carbophenothion	2
Copper nitrate	2
Endrin	2
Flucythrinate	2
Fosetyl-Al	2
Hexachlorobutadiene	2
Pentachlorophenol	2
Permethrin	2
Potassium dichromate	2
Tributyltin oxide	2
1,1-Dichloroethene	1
1,2-Dichlorobenzene	1
1,2-Dichloropropane	1
2,4-D Acid	1
2,4-Dinitrophenol	1
3-Iodo-2-propynyl butylcarbamate	1
4-Nitrophenol	1
Acetochlor	1
Acetone	1
Aldicarb	1
Amdro (Pyrimidinone)	1
Ametryn	1
Amitraz (Degrad)	1
Avermectin	1
Azoxystrobin	1
Bensulide	1
Bromacil	1
Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH) - BCDMH dehydrate	1
Bromonitrostyrene	1
Bromoxynil octanoate	1
Bronopol	1
Bufencarb	1
Butylate	1
Cadmium chloride	1
Carbaryl	1
Carfentrazone-ethyl (F8246)	1
Chlorobenzilate	1
Chloromethane	1
Chlorothalonil	1
Cimecticarb	1
Clomazone	1
Copper sulfate, pentahydrate	1
Creosote-Coal Tar Distillate	1
Cyhexatin (Plictran)	1
Cypermethrin	1

**Appendix II - C**  
**Summary of Number of Species Tested per Chemical**

Cyproconazole	1
Cyprodinil	1
Dazomet	1
DBNPA	1
DEF (Tribuphos)	1
Deltamethrin	1
Diazinon	1
Dibromodicyanobutane	1
Dichlobenil	1
Dichloro-2-n-octyl-3(2H)-isothiazolone	1
Difenoconazole	1
Dimethenamid	1
Dimethenamid - (S)-Dimethenamid	1
Dimethhepin	1
Disulfoton	1
Disulfoton sulfoxide	1
Diuron	1
Emamectin benzoate	1
Endosulfan	1
EPN	1
Ethalfluralin	1
Ethofumesate	1
Ethoprop	1
Etridiazole	1
Fenbuconazole	1
Fenbutatin Oxide	1
Fenpropatriphrin	1
Fenthion	1
Fentrifanil	1
Fipronil	1
Fluometuron	1
Fluroxypyr acid	1
Fluthiacet methyl	1
Fluvalinate	1
Folpet	1
Fonofos	1
Glyphosate	1
Heptachlor	1
Imidacloprid	1
Iprodione	1
Irgarol	1
Isofenphos	1
Kresoxim methyl	1
Mercuric chloride	1
Methidathion	1
Methiocarb	1
Methomyl	1
Methyl bromide	1
Methyl Parathion	1
Metolachlor	1
Metribuzin	1
Metronidazole	1
Molinate	1
Myclobutanil	1
Naled	1

**Appendix II - C**  
**Summary of Number of Species Tested per Chemical**

Napropamide	1
Nickelous chloride	1
Norflurazon	1
OBPA	1
Ocithilinone	1
Oxadiazon	1
Oxamyl	1
Oxythioquinox	1
Ozone	1
Pendimethalin	1
Pentachloronitrobenzene (PCNB)	1
Phorate	1
Phosphamidon	1
Piperonyl butoxide	1
Profenofos	1
Prometon	1
Prometryn	1
Propanil	1
Propiconazole	1
Quizalofop, Ethyl	1
Sodium lauryl sulfate	1
Sulfentrazone	1
Sumithrin	1
Tefluthrin	1
Terbacil	1
Terbufos	1
Tetrachloromethane	1
Thiazopyr	1
Thiocyanate - Methylenebis	1
Thiodicarb	1
Thiophanate-methyl	1
Thiram	1
Tralomethrin	1
Tributyltin fluoride(TBTF)	1
Trichlorfon	1
Triclopyr BEE	1
Trifluralin	1
Trifluralin II	1
Trifluralin III	1
Trifluralin IV	1
Triphenyltin hydroxide	1
Vernolate	1
Zinc Omadine	1
Zinc sulfate	1



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## **Appendix II - D**

**Summary of Number of Species Tested Per Chemical**

**Saltwater Invertebrates**



**Appendix II - D**  
**Summary of Number of Species Tested per Chemical**

SALTWATER INVERTEBRATES	
Chemical	# Spp
Chlorpyrifos	5
Endrin	5
Ethoprop	5
Toxaphene	5
Carbaryl	4
Chlordecone (Kepone)	4
Cypermethrin	4
DEF (Tribuphos)	4
Fenthion	4
Fonofos	4
Methoxychlor	4
Methyl Parathion	4
Phorate	4
Acrolein (2-Propenal)	3
Dichlorvos	3
Dicofol	3
Dieldrin	3
Disulfoton	3
Endosulfan	3
EPN	3
Ethion	3
Formetanate Hydrochloride	3
Glyphosate	3
Hexachlorocyclohexane (Lindane)	3
Methidathion	3
Molinate	3
Parathion	3
Permethrin	3
Phosmet	3
Phosphamidon	3
Thiodicarb	3
Tributyltin oxide	3
Triphenyltin hydroxide	3
3-Iodo-2-propynyl butylcarbamate	2
Acetochlor	2
Aldicarb	2
Amitraz (Degrad)	2
Antimycin A	2
Atrazine	2
Azinphos-methyl	2
Azoxystrobin	2
Bendiocarb	2
Benefin - Benfluralin	2
Benomyl	2
Bensulide	2
Bromacil	2
Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH) - BCDMH dehydrate	2
Bromoxynil octanoate	2
Bronopol	2

**Appendix II - D**  
**Summary of Number of Species Tested per Chemical**

Butralin	2
Captafol	2
Captan	2
Carbophenothion	2
Carfentrazone-ethyl (F8246)	2
Chlorpyrifos-methyl	2
Clomazone	2
Coumaphos	2
Cyclanilide	2
Cyfluthrin	2
Cyproconazole	2
Cyprodinil	2
Dazomet	2
DBNPA	2
DDD	2
DDT	2
Deltamethrin	2
Dichlobenil	2
Difenoconazole	2
Diflubenzuron	2
Dimethenamid	2
Dimethhepin	2
Dimethoate	2
Dithiopyr	2
Diuron	2
Ecolyst	2
Emamectin benzoate	2
Endothall	2
Ethalfluralin	2
Ethofumesate	2
Etridiazole	2
Fenbuconazole	2
Fenoxyprop-ethyl	2
Fenvaleate	2
Fipronil	2
Fluazifop-p-butyl	2
Flufenacet	2
Fluometuron	2
Fluthiacet methyl	2
Folpet	2
Fosetyl-Al	2
Halosulfuron	2
Isofenphos	2
Isoxaflutole	2
Kresoxim methyl	2
Malathion	2
Metalaxyl	2
Methomyl	2
Methoxyfenozide	2
Metolachlor	2
Myclobutanil	2
Naled	2
Napropamide	2
Nitrapyrin	2
Norflurazon	2

**Appendix II - D**  
**Summary of Number of Species Tested per Chemical**

Ocithilinone	2
Oxadiazon	2
Oxythioquinox	2
Pentachloronitrobenzene (PCNB)	2
Pentachlorophenol	2
POE Isooctadecanol	2
Primingulfuron-methyl	2
Prodiamine	2
Profenos	2
Prometon	2
Prometryn	2
Propanil	2
Pymetrozine	2
Pyridaben	2
Pyridate	2
Quizalofop, Ethyl	2
Sodium lauryl sulfate	2
Tebuconazole	2
Tebufenozide	2
Terbufos	2
Thiazopyr	2
Thidiazuron	2
Thiocyanate - Methylenebis	2
Thiophanate-methyl	2
Thiram	2
Triclopyr BEE	2
Trifloxystrobin	2
Trifluralin	2
Vernolate	2
Vinclozolin	2
Zinc Omadine	2
2,4-D Acid	1
2,4-D Butoxyethanol ester	1
2,4-D Propylene glycol butyl ether ester	1
2,4-Dinitrophenol	1
4-Nitrophenol	1
Acetone	1
Ametryn	1
Amitraz	1
Amitrole	1
Anilazine	1
Aspon	1
Avermectin	1
Bentazon	1
Bis(trichloromethyl)Sulfone	1
Bromo-3-chloro-5,5-dimethylhydantoin(BCDMH)	1
Bromonitrostyrene	1
Bufencarb	1
Carbofuran	1
Chlorothalonil	1
Chlorothalonil(Degrad)	1
Chlorsulfuron	1
Copper sulfate, pentahydrate	1
Creosote-Coal Tar Distillate	1
Cuprous oxide	1

**Appendix II - D**  
**Summary of Number of Species Tested per Chemical**

Cyhalothrin	1
Cyhexatin (Plictran)	1
DCPA (Dacthal)	1
Demeton	1
Diazinon	1
Dibromodicyanobutane	1
Dichloro-2-n-octyl-3(2H)-isothiazolone	1
Diflufenzopyr-sodium	1
Dimethenamid - (S)-Dimethenamid	1
Dimethomorph	1
Fenbutatin Oxide	1
Fenhexamid	1
Fenoxy carb	1
Fenpropothrin	1
Flucythrinate	1
Flumetralin	1
Flumiclorac pentyl	1
Fluroxypyr acid	1
Fluroxypyr ester	1
Flutolanil	1
Fluvalinate	1
Heptachlor	1
Hexachlorobutadiene	1
Hexazinone	1
Imidacloprid	1
Iprodione	1
Irgarol	1
Irgarol 1051(GS26575 Degrad)	1
Isoxaflutole(Degrad)	1
Linuron	1
Maneb	1
MBC - Carbendazim	1
MCPA iso octyl ester	1
Mefenoxam	1
Methamidophos	1
Methiocarb	1
Methoprene	1
Metronidazole	1
Mevinphos	1
Mirex	1
OBPA	1
Oxazolidine E	1
Oxine-copper	1
Ozone	1
Phostebupirim	1
Piperonyl butoxide	1
Propargite	1
Propiconazole	1
Propoxur	1
Propyzamide	1
Quinclorac	1
Sulfentrazone	1
Sulfur	1
Sumithrin	1
Tefluthrin	1

**Appendix II - D**  
**Summary of Number of Species Tested per Chemical**

Terbuthylazine	1
Tetrachlorvinphos	1
Thiabendazole	1
Thiobencarb/Benthiocarb	1
Triasulfuron	1
Trichlorfon	1
Triethylene Glycol	1
Trimethacarb	1
Tris(hydroxymethyl)nitromethane	1
Ziram	1



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## **Appendix II - E**

**Summary of Number of Species Tested Per Chemical**

**Amphibia and Others**



**Appendix II - E**  
**Summary of Number of Species Tested per Chemical**

AMPHIBIA AND OTHERS	
Chemical	# Spp
Azinphos-methyl	2
DDT	2
Dieldrin	2
Endrin	2
Glyphosate	2
Hexachlorocyclohexane (Lindane)	2
Malathion	2
Methiocarb	2
Paraquat	2
Toxaphene	2
Bacillus thuringiensis	1
DDD	1
Endosulfan	1
Heptachlor	1
Hexachlorocyclohexane (Benzene hexachloride)	1
Methomyl	1
Methoxychlor	1
Methyl Parathion	1
Molinate	1
Monocarbamide dihydrogensulfate	1
Parathion	1
Triadimenol	1
Tributyltin oxide	1
Trifluralin	1







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